



OPERATOR'S MANUAL AND SPARE PARTS

Planter 27000



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INTRODUCTION

Read this manual carefully in order to know how to operate and maintain your planter 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. The right and left hand sides are determined by considering the direction the machine moves forward.

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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Spare parts manual

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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.

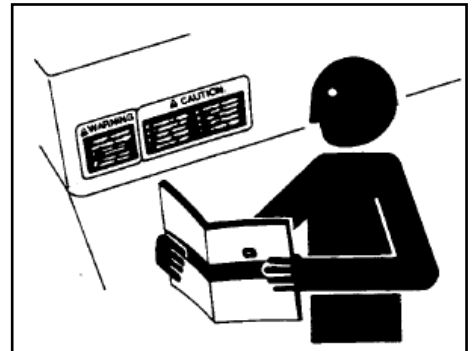
CAUTION

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

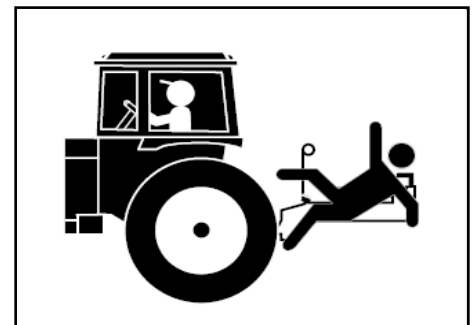
Follow the safety instructions:

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.

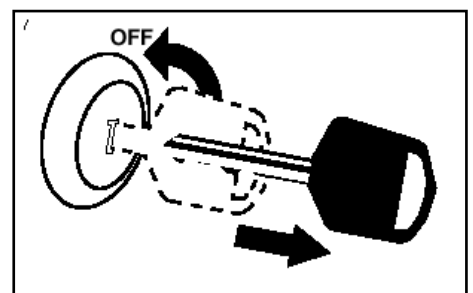


The only person allowed while tractor and machine are working is "the operator"



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.

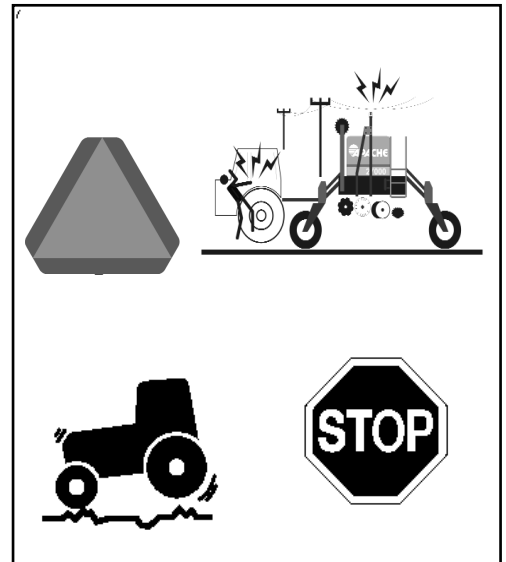


SAFETY - 02

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

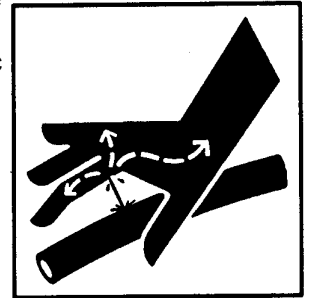
- * Do not transport the planter with an underweight tractor, unable to offer complete stability when stopping the planter.
- * Check the safety pin is placed on the hitch lock bolt of the machine/tractor, the markers lock bolt is installed and the transport wheels cylinders are locked.
- * Do not transport 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.

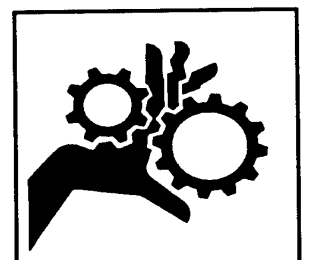
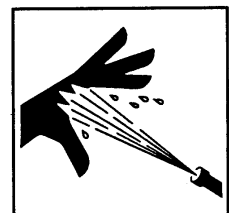
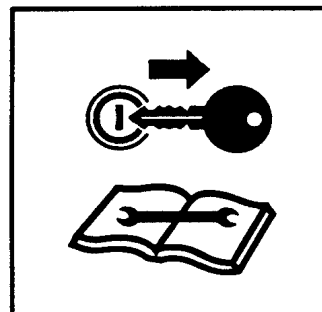
- * Remove pressure in the system before disconnecting the planter, or any hydraulic hose.
- * Tighten all connections before giving pressure to the system.
- * Use a piece of cardboard to localize escaping fluids. Do not use any part of your body.
- * Bleed the air inside the hydraulic system before 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.



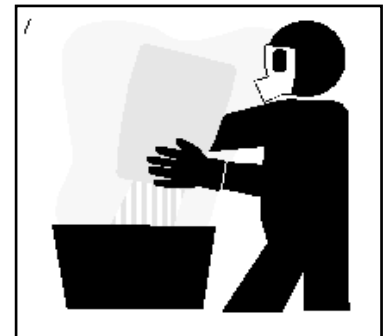
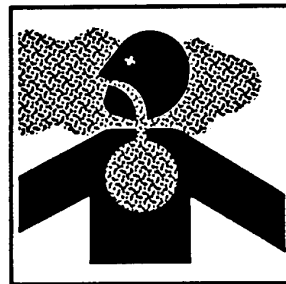
* Wear appropriate clothing and safety equipment.



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.



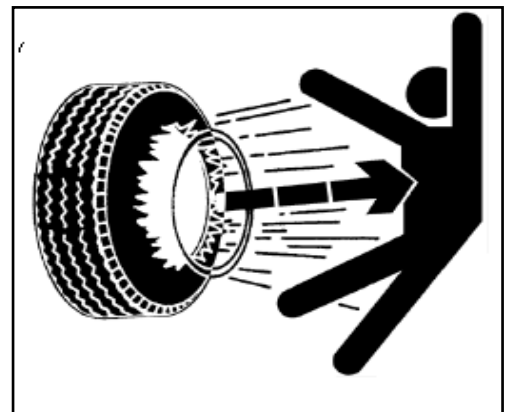
Do not attempt to mount a tire without the proper equipment and experience to perform this job.

* 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.

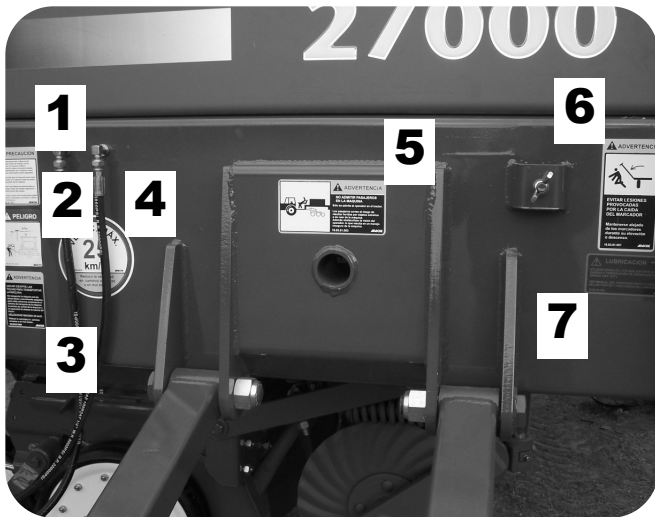
* When inflating tires, use a clip-on chuck and extension hose long enough to allow you to stand to one side and NOT in front of or over the tire assembly. Use a safety cage, if available.

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

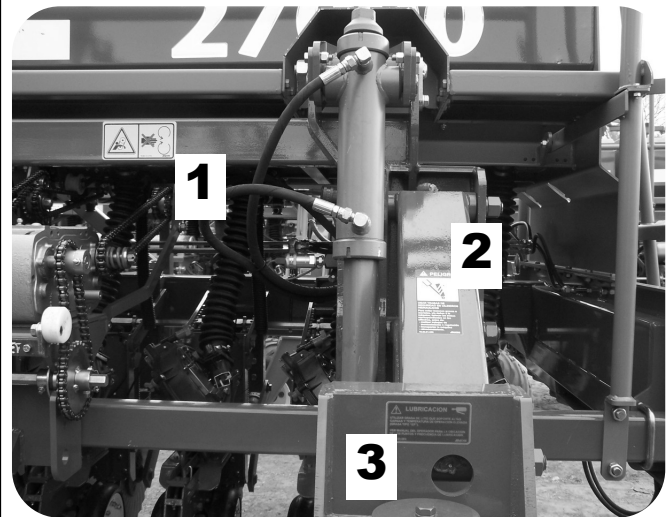


ATTENTION:

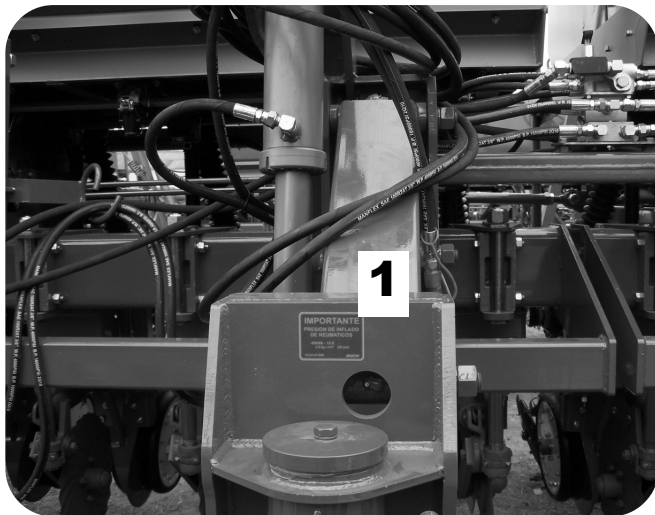
Always be careful. Read and understand the manual before using the implement. Pay attention to the safety decals on the machine.



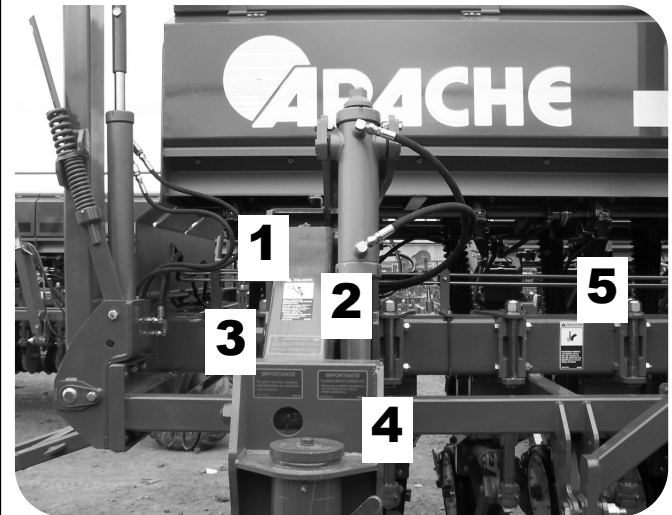
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 2- 18.83.01.016 4- 18.83.01.012 6- 18.83.01.007
 7- 18.83.03.003



1- 18.83.01.019
 2- 18.83.01.008
 3- 18.83.03.003



1- 18.83.03.005



1- 18.83.01.008 3- 18.83.03.002 5- 18.83.01.006
 2- 18.83.03.003 4- 18.83.03.004



1- 18.83.01.007 3- 18.83.01.013 5- 18.83.01.016
 2- 18.83.03.003 4- 18.83.01.010



1- 18.83.01.009 2- 18.83.01.006

Safety decals on the machine:

IMPORTANT: Keep all safety decals on the machine clean and legible

! DANGER



FALLING MARKER HAZARD

Stay away from markers when they are being folded or unfolded.

18.83.01.007 **APACHE**


! CAUTION



ALWAYS KEEP YOUR HANDS AWAY FROM THE OPENER DISK BLADES WHILE PERFORMING ADJUSTMENTS

18.83.01.006 **APACHE**

! DANGER



USE SAFETY LOCKS IN TRANSPORT WHEELS CYLINDERS. REMOVE ALL PRESSURE IN THE HYDRAULIC CIRCUIT.

To avoid serious injuries or death, and/or damage on the machine, install safety locks in the cylinders before maintenance and adjustment, transporting the machine on the road or storage. After the installation, stop the tractor engine and activate the lever in order to lower the machine and decompress the hydraulic circuit.

If the system contains pressure all connections and valves work under high pressure, and with the time and other external factors, this condition worsens and turns into real danger both for the machine and the people involved. Do not risk your life or your equipment. Always install the safety locks.

18.83.01.008 **APACHE**



! WARNING

AVOID HIGH-PRESSURE FLUIDS

Tighten all connections before applying pressure.

Relieve pressure before unhooking hydraulic or other lines.

18.83.01.009 **APACHE**

! DANGER



Do not travel here.

18.83.01.010 **APACHE**



! WARNING

KEEP RIDERS OFF MACHINERY

Riders obstruct the operator's view. Riders could be struck by foreign objects or thrown from machine.

- The operator is the only person allowed in the tractor.
- Never allow riders on implement.

18.83.01.003 **APACHE**



IMPORTANTE: Mantener las señales de seguridad de la máquina en perfectas condiciones.

! WARNING

ALWAYS EMPTY THE BOXES TO TRANSPORT THE MACHINE

Do not transport the machine with completely or partially loaded boxes to avoid

- excessive effort in the machine transport system
- lack of control when steering or stopping the tractor.

TOP SPEED 25 km/h
Rough terrains require a lower speed.

18.83.01.004 **APACHE**

! CAUTION

- Carefully read all safety messages in this manual and on your machine safety signs. Keep safety signs in good condition. Replace missing or damaged safety signs.
- Learn how to operate the machine and how to use controls properly. Do not let anyone operate without instruction.
- Keep your machine in proper working condition. Unauthorized modifications to the machine may impair the function and/or safety and affect machine life.

18.83.01.011 **APACHE**

! DANGER



18.83.01.016 **APACHE**




18.83.01.019 **APACHE**

TOP SPEED

25
km/h

18.83.01.012 **APACHE**

Rough terrains require a lower speed

! LUBRICATION 

Use lithium grease that supports heavy loads and high operation temperature ("EP" type grease)
See the operator's manual for grease fittings location and lubrication frequency.

18.83.03.003 **APACHE**

IMPORTANT

INFLATION PRESSURE OF TIRES

400/60 - 15.5
3,5 kg / cm² (50 psi)

18.83.03.005 **APACHE**

IMPORTANT

BLADE ALIGNMENT

Align the coultter blades with the center of the dual opener disks.

18.83.03.004 **APACHE**

IMPORTANT

Do not rotate with the opener disk in contact with the ground.

18.83.03.002 **APACHE**

SPECIFICATIONS - 01

Presentation:

This planter is available in 2 (two) versions:

* 40 cm row spacing mainframe, adaptable at 52.5 cm; and/or

* 52.5 cm row spacing mainframe, adaptable at 70 cm

These 2 (two) versions offer the following variable working widths.

MAINFRAME AT 40 cm (Adaptable at 52.5 cm)

<i>ROWS</i>	<i>WORKING WIDTH</i>		<i>Adaptable at:</i>	<i>working width</i>	FRAMES
10 at 40 cm	4 m	and/or	8 rows at 52.5 cm	4.2 m	1 frame
16 at 40 cm	6.4 m	and/or	12 rows at 52.5 cm	6.3 m	“
20 at 40 cm	8 m	and/or	16 rows at 52.5 cm	8.4 m	2 frames
24 at 40 cm	9.6 m	and/or	18 rows at 52.5 cm	9.45 m	“
28 at 40 cm	11.2 m	and/or	22 rows at 52.5 cm	11.55 m	“

MAINFRAME AT 52.5 cm (Adaptable at 70 cm)

10 at 52.5 cm	5.25 m	and/or	8 rows at 70 cm	5.6 m	1 frame
14 at 52.5 cm	7.35 m	and/or	10 rows at 70 cm	7 m	“
16 at 52.5 cm	8.4 m	and/or	12 rows at 70 cm	8.4 m	“
20 at 52.5 cm	10.5 m	and/or	16 rows at 70 cm	11.2 m	2 frames
26 at 52.5 cm	13.65 m	and/or	20 rows at 70 cm	14 m	“

The APACHE 27000 planter enables the seeding of crops such as: soybean, sunflower, corn, sorghum, kidney bean, peanut, safflower, cotton and wheat. Fertilization can also be carried out while seeding.

"Wheat" can be applied in two ways:

1- Metering system - Inclined disk meter : the machine passes twice in order to obtain the most convenient working width for this seed. When the planter is assembled with the opener disks at 52.5cm, and passes twice, the final row distance will be 26.25cm, which is suitable for wheat. When it is assembled at 70 cm, the final row distance will be 35cm, which is also a convenient distance for this seed.

2- Metering System - Inclined disk meter and “chevron” type wheel meters:

This system involves the use of the opener disks placed at the front toolbar together with the planter’s own opener disks. The first ones will be placed in-between the machine row units, and will receive the product metered by means of the “chevron” type wheel. The second ones use the disk metering system.

Row spacing depends on the planter configuration, for example the 16 row planter at 40cm has 15 in-between spaces, where the optional opener disks will be placed. This results in a final configuration of 31 rows at 20cm row spacing for wheat.

SPECIFICATIONS - 02

Transport:

All versions feature endwise transport

Transport width:

3.8 m in all versions

Working and transport wheels:

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

* **Number:** 4 (1 frame planters)
8 (2 frame planters)

* **Inflation pressure:** 3.5 kg/cm² (50 psi)



WARNING!

TRANSPORT YOUR PLANTER SAFELY. Read "SAFETY" section in this manual.

The working wheels operate with a hydraulic balancing system which enables the planter 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:

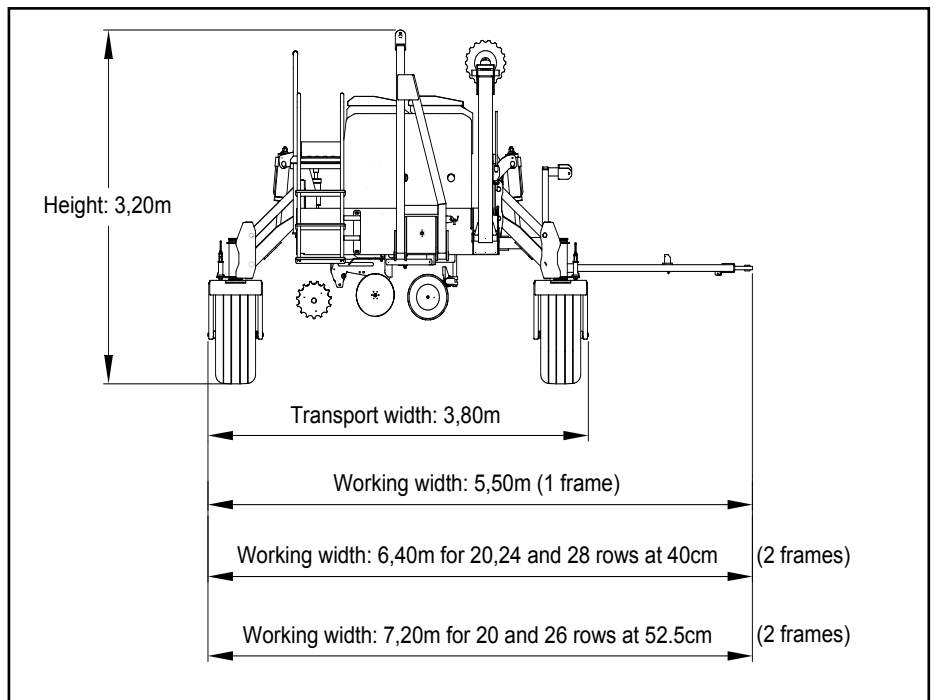
These data are approximate and could vary due to circumstances such as the ground condition where it is working and the seeding speed.

Number of rows	Required PTO for single frame planter	Required PTO for double frame planter
10	90	110
14	125	140
16	135	150
20	170	180
24	180	200
26	200	220
28	220	240

Single frame means the row units of the machine only. Double frame means the row units of the machine plus the accessory row units which are added in the toolbar.

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.

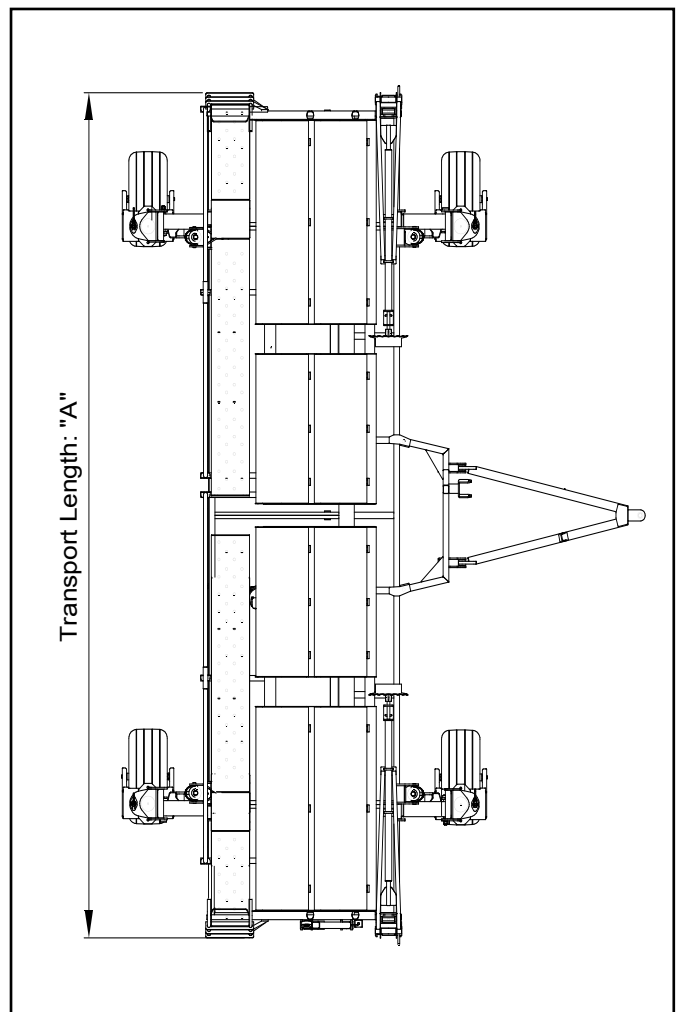
Planter dimensions:



It is convenient to point out that the drawing only identifies the one frame planter in order to give the dimensions in length, but all the planters measurements are expressed in the text.

“A” for:

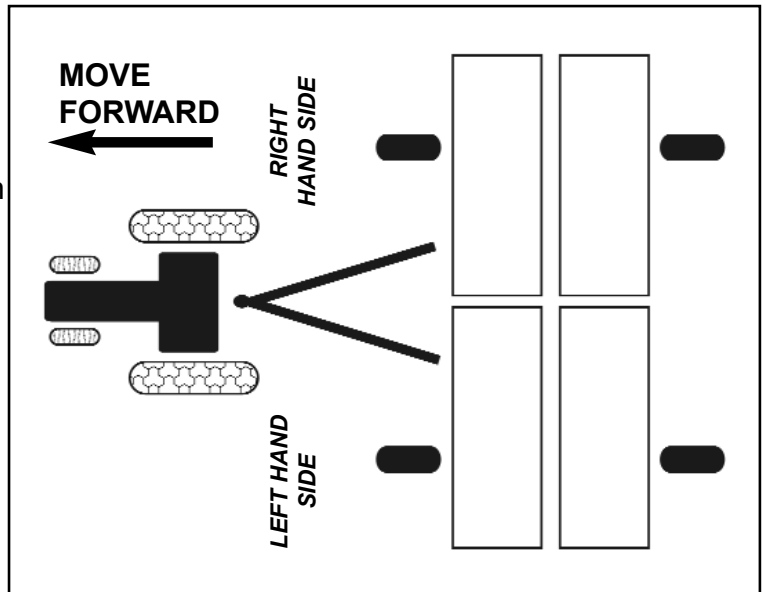
- * 10 rows at 40cm = 4.70m
- * 10 rows at 52.5cm = 5.90m
- * 14 rows at 52.5cm = 7.80m
- * 16 rows at 40cm = 7.00m
- * 16 rows at 52.5cm = 8.90m
- * 20 rows at 40cm = 8.75m
- * 20 rows at 52.5cm = 11.32m
- * 24 rows at 40cm = 10.30m
- * 26 rows at 52.5cm = 14.20m
- * 28 rows at 40cm = 11.90m



Before using the planter:

*Read, understand and follow all instructions in the operator's manual regarding safety, operation and maintenance of the planter 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 lubrication of the greasing joints.
- * Check inflation pressure of tires.
- * Check the safety decals are in good conditions.

Following, procedures for operating APACHE 27000 planter are detailed.

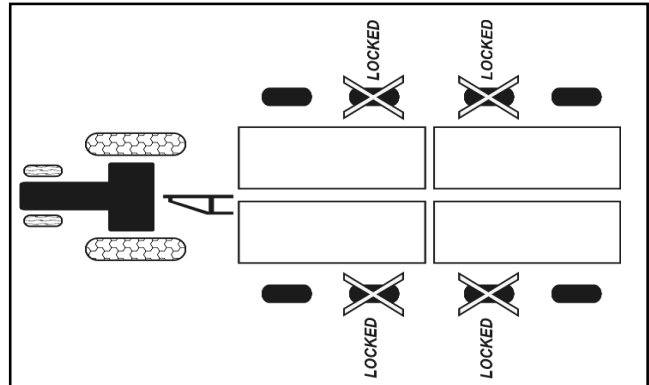


ATTENTION: Be careful when using agricultural machinery.

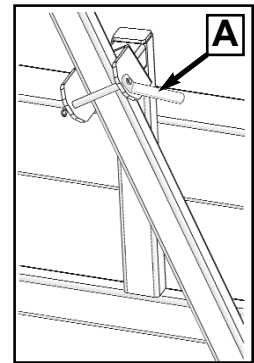
From working to transport position:

2 frame machines:

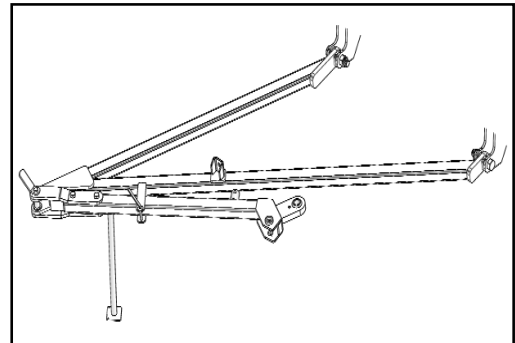
The machine and tractor are in transport position and the four central wheels are locked.



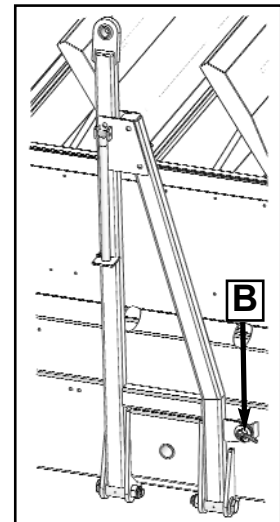
1- The operator should lower the tractor to remove the locks **A** in every hitch.



2- Actuate the the tractor hydraulic control lever to lower both halves of the working hitch and place the hitch jack in order to hold them.



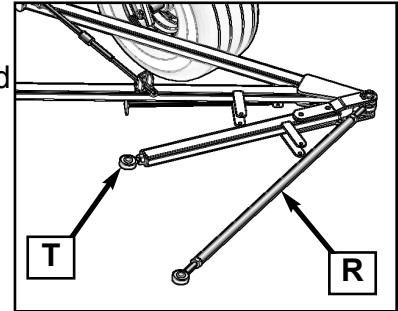
3- Place the hitch jack so as to hold the transport hitch. Disconnect the hoses and move the tractor away. Fold the transport hitch and secure its position with the lock **B**.



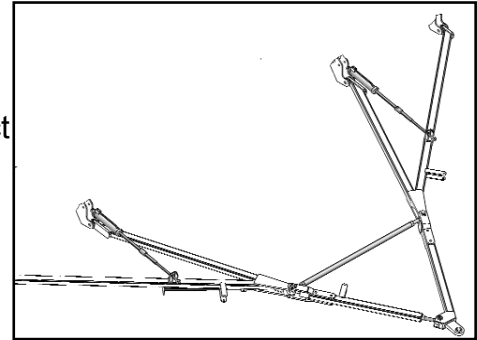
4- Move the tractor forward and finish to assemble the working hitch in order to hook it to the tractor.

ADJUSTMENT - 02

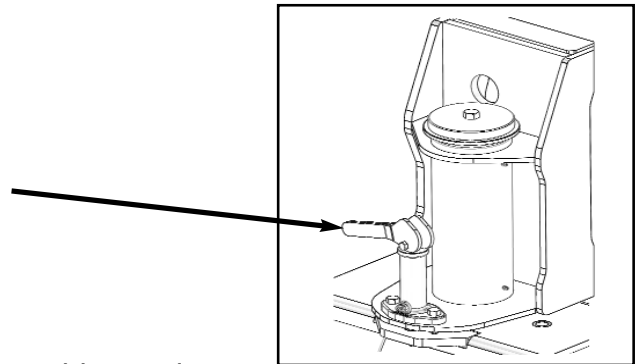
5- Unlock the final stretch **T** in both hitches -left and right- and also unlock the adjustment **R**.



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



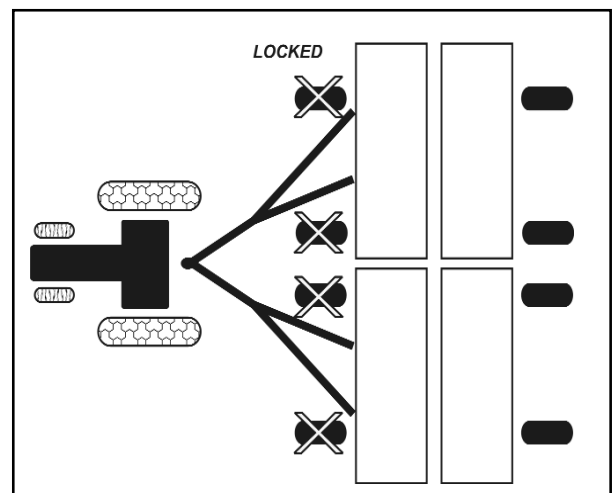
7- **VERY IMPORTANT:** Unlock the wheels.



8- Actuate the hydraulic control lever to lift the machine and remove all the transport locks on the wheels 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 wheels line -either front or rear- all wheels should be locked.
Apache recommends to lock the front wheels.



10- Starting work.

Change from transport to working position:

Repeat the previous steps but in the opposite order.

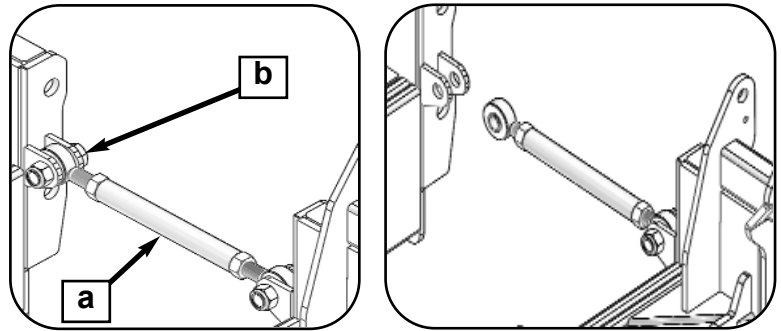
NOTE:

For 1 frame 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.

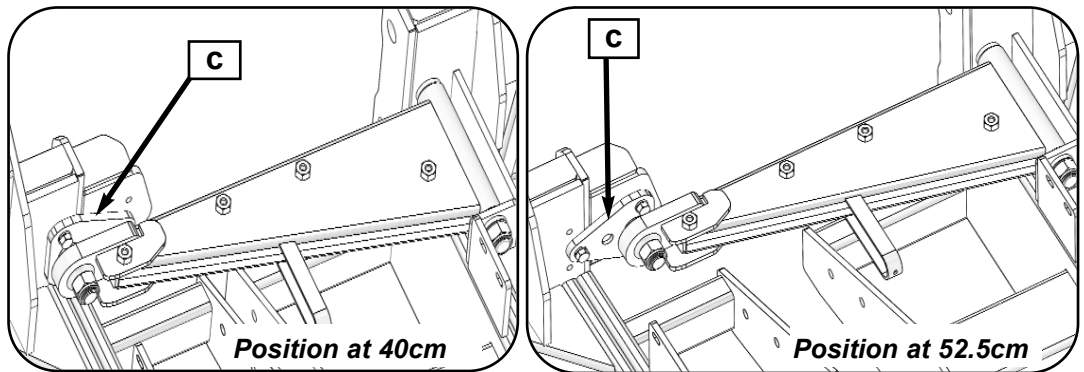
Configuration change:

To change the 2 frame machine configuration, eg. from 20 rows at 40cm to 16 rows at 52.5cm, follow these instructions:

1- Loosen the rear adjustment (a), by removing the bolt (b).



2- Turn the front adjustment (c) from its original position-40cm-, to 52.5 cm.



To achieve this, first the adjustment should be loosened by removing all the bolts that hold it. Uncouple it from the machine, turn it to its new position and place it again.

Extend the rear adjustment (a) to its new position, and tighten both front and rear adjustments again.

NOTE: In 2 frame machines, central row units never change their position, therefore they should not be moved from their original position.

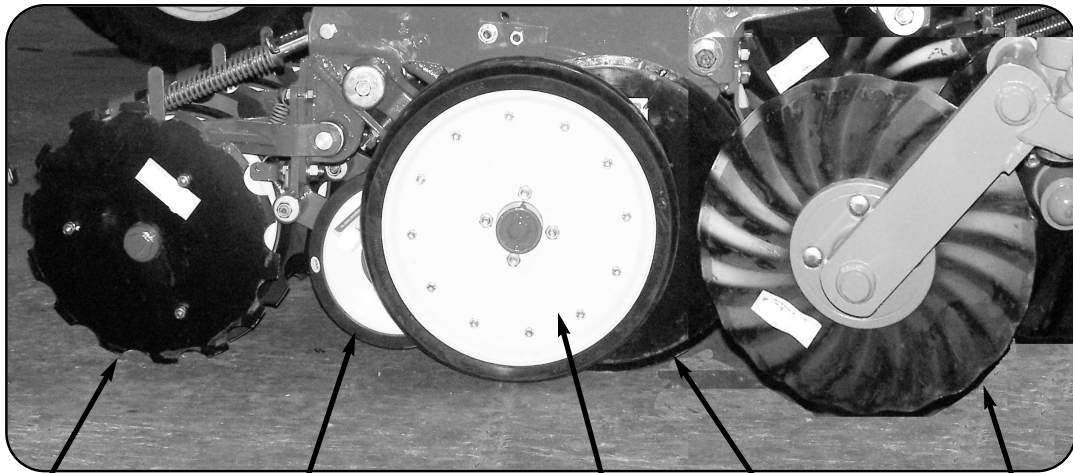
3- When the front register position is changed, the central row units automatically adopt the new spacing: *from 40cm (before the change) to 52.5cm spacing.*

4- Finally, starting from the central row unit corresponding to each frame, move the other row units to the correct distance. In this case - from 20 rows to 16 - to take it from 16 rows at 52.5cm, 4 row units should be removed -2 corresponding to each frame.

5- When this is finished, check the opener disks spacing is 52.5cm and all row units are properly adjusted.

In 1 frame machines, the measurements should be taken from the center of the mainframe outwards. As the number of rows is even, the "central row unit" position does not apply. In order to place the first row units, the operator should divide the spacing used, eg: 40cm, from the middle point of the machine results in 20 cm each side. There, the two first row units should be placed and from that point, the rest of them should be positioned.

Row unit features:



Double closing wheels with notched disks

Press wheel

2 side gauge wheels

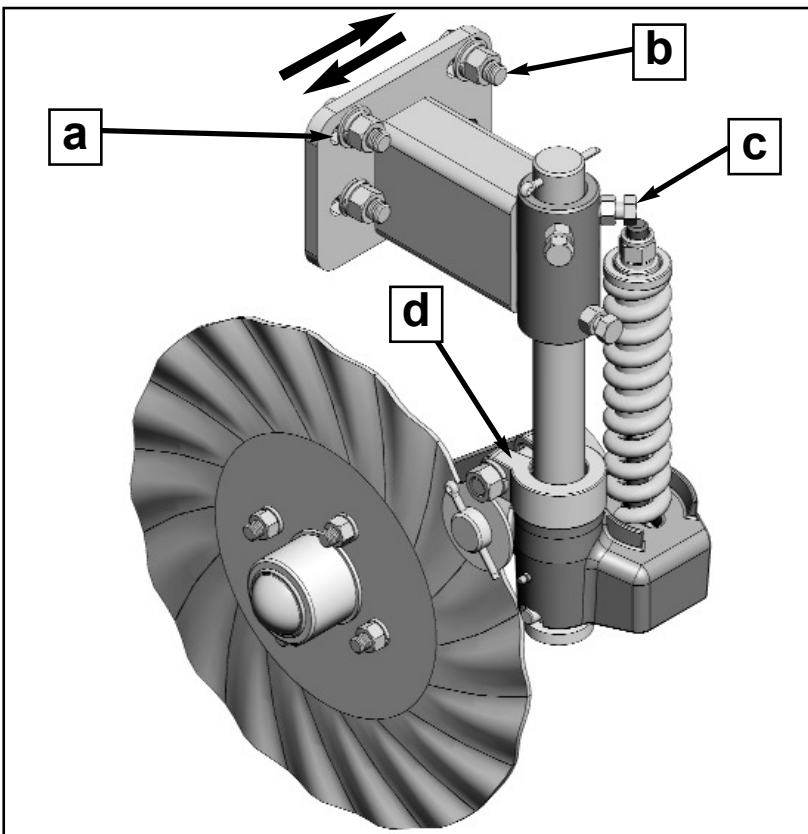
Double opener disk

no-till wavy coultter blade

Coultter blade:

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

* **Alignment adjustment:** The slot holes (a) in the anchoring plate pivoting coultter shaft, offer side adjustment to align the blade with the double opener disks. In order to adjust, loosen the bolts (b), 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 hydraulic working cylinders

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

When the desired height is achieved, tighten the square bolts again, and afterwards tighten the flange.

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

IMPORTANT
BLADE ALIGNMENT
 Align the coulters blades with the center of the dual opener disks.
 18.83.03.004 APACHE

CAUTION

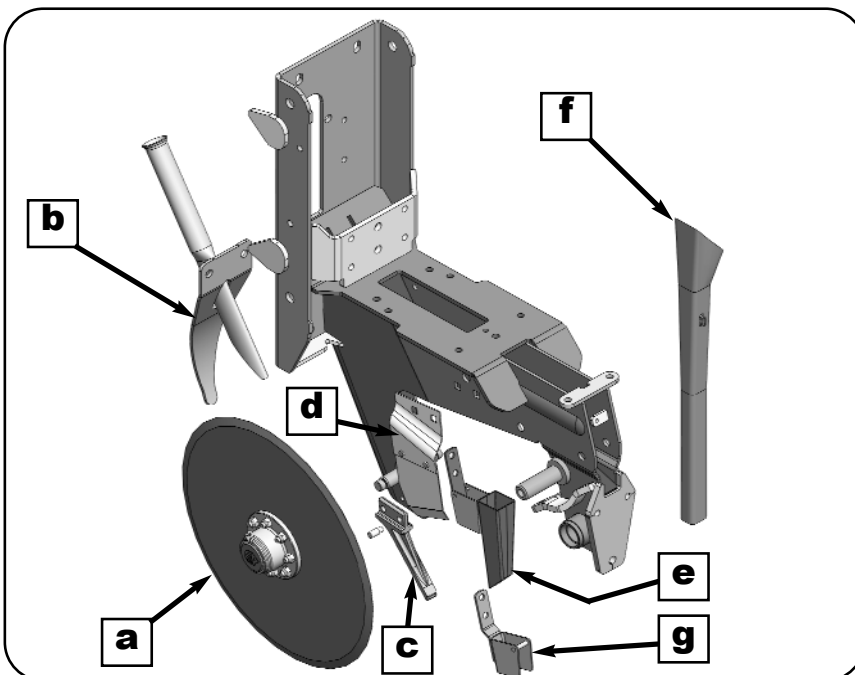


ALWAYS KEEP YOUR HANDS AWAY FROM THE OPENER DISK BLADES WHILE PERFORMING ADJUSTMENTS
 18.83.01.006 APACHE

Double opener disk:

16" double disk (a), with disk cover (b) and fertilizer unload tube attached. 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 unloading seed tube (f).



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:

Apache 27000 opener disk seeding depth control is performed by means of semipneumatic 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.

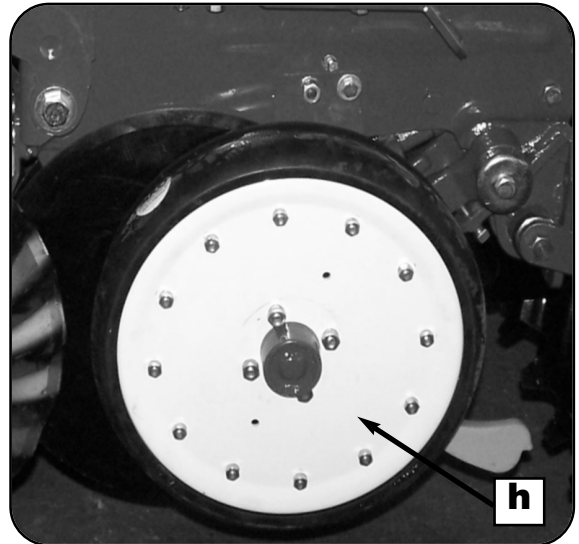
Two wheels measurement are used:

* Planters with mainframe configuration for row spacing at 40 cm have 2 7/8" x 15" wheels

* Planters with mainframe configuration for row spacing at 52.5 cm have 4 1/2" x 15" wheels

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.

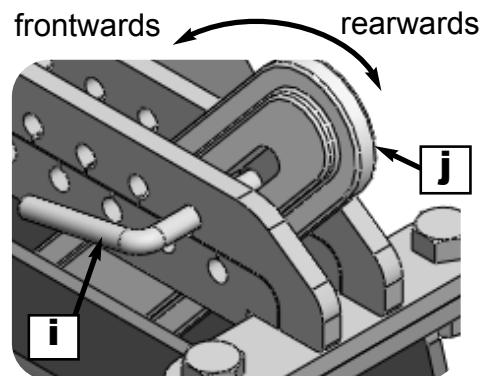


Adjustment: These wheels should be adjusted with the row units in raised position.

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.



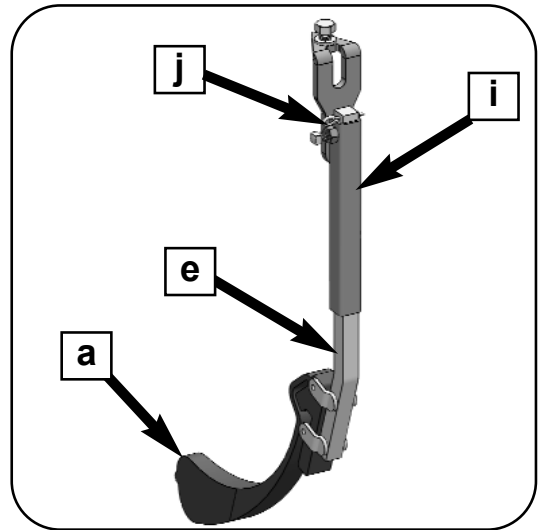
When the desired position is achieved, place the pin again to fix the arm position.

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

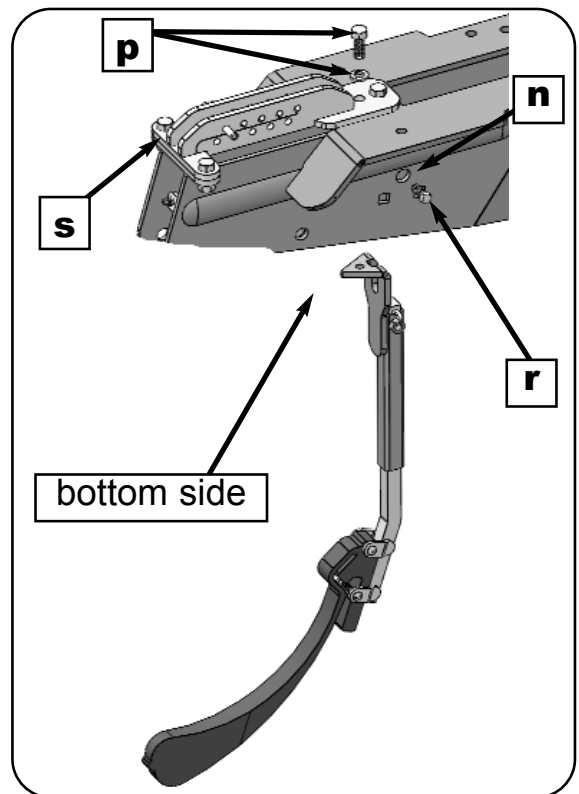
Seed firmer:

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).

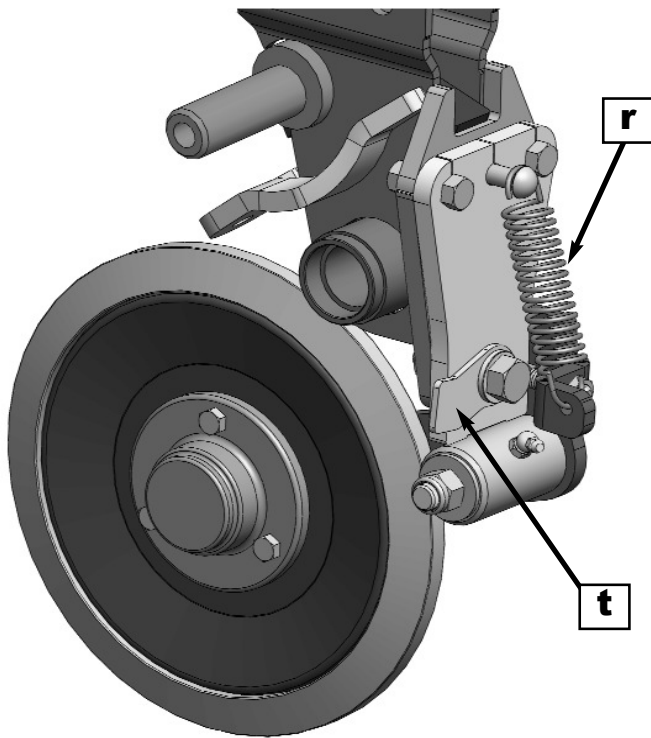


The assembled seed firmer is then mounted on the opener disk through its bottom side. The adjustment selector is tightened (s), by means of the bolt and lock washer (p). Once the bolt is tightened, put the bolt (r) -which will be now used to adjust the seed firmer height- in the hole (n) at the side of the opener disk.



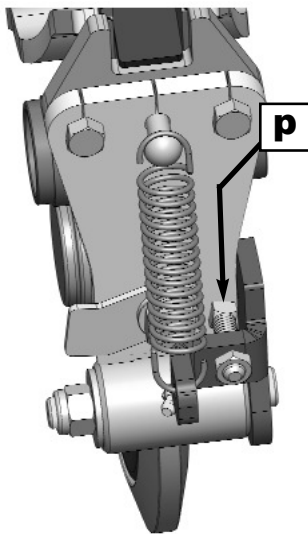
Press wheel:

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



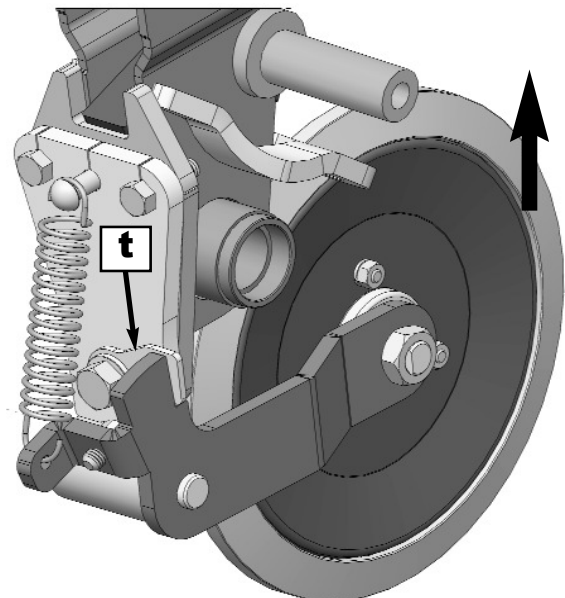
A spring (r) keeps pressure on the working field.

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

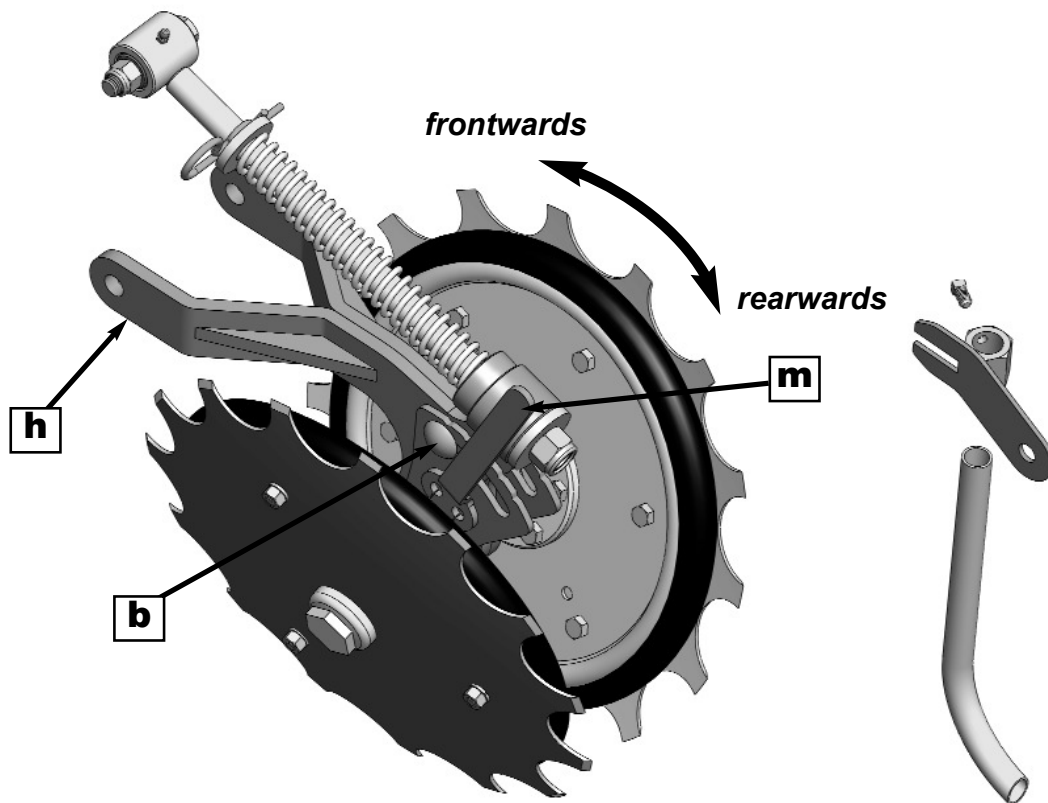


Double closing wheels with notched disk:

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 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 attached to the opener disk by means of a fork (h) and they have attack angle 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 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.

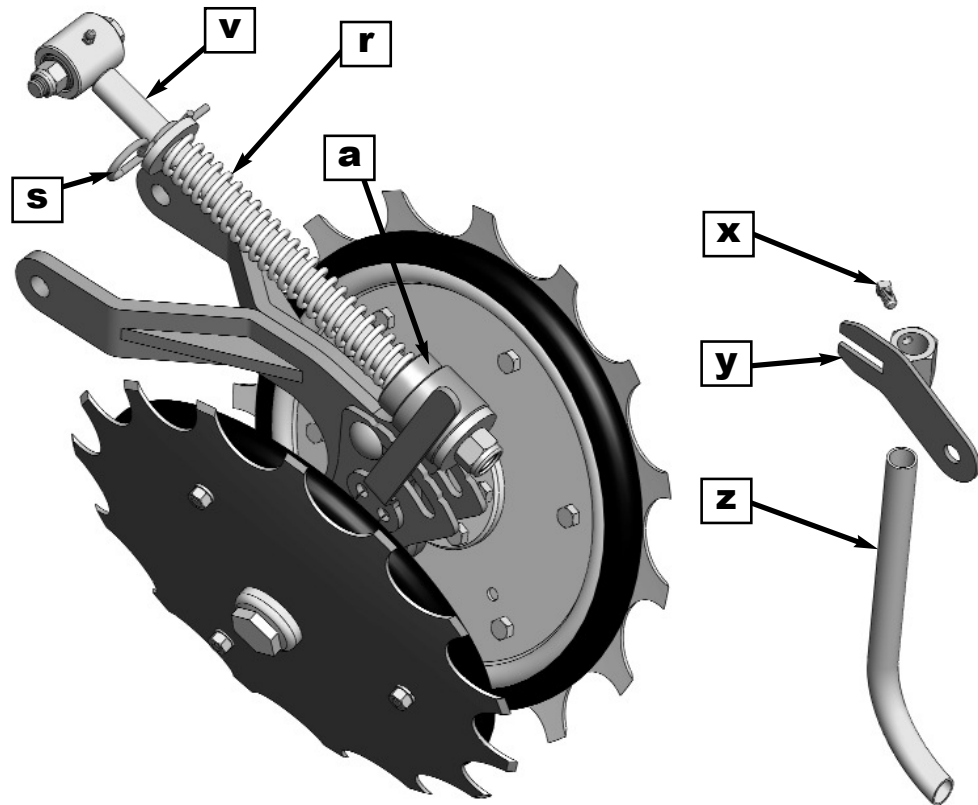
To adjust the angle of attack, first the bolt (b) should be loosened, next the crank (m) should be held and all the wheel kit must be turned frontwards or rearwards, within the range allowed by the shaft adjustment. Consider that the soil deposited on the seed **increases frontwards and decreases rearwards**.

*** Spring loaded downforce adjustment:**

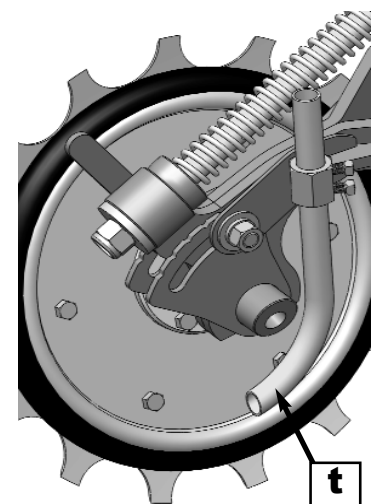
This adjustment is very simple, it consists of an adjustment arm (v) with adjustment points; a spring (r) guided by this arm; and a safety device (s) to set its position.

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 visualise the other items of the adjustment arm and place the safety device in the new position.

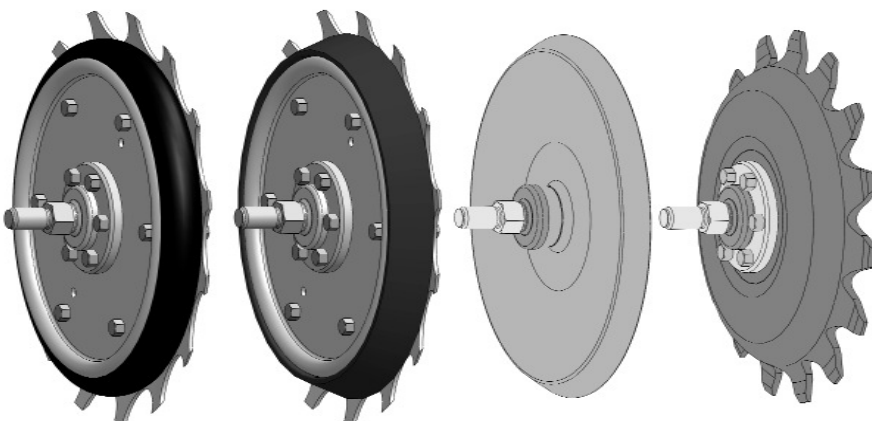
NOTE: The spring guide works on a convex support (a) with a rounded outline which, supported by the shape of the fork, enables to absorb the up and down movements of the wheels, without problem.



The items (x), (y) y (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 alfalfa box unloads in the tube (t).



Optional closing wheels models:

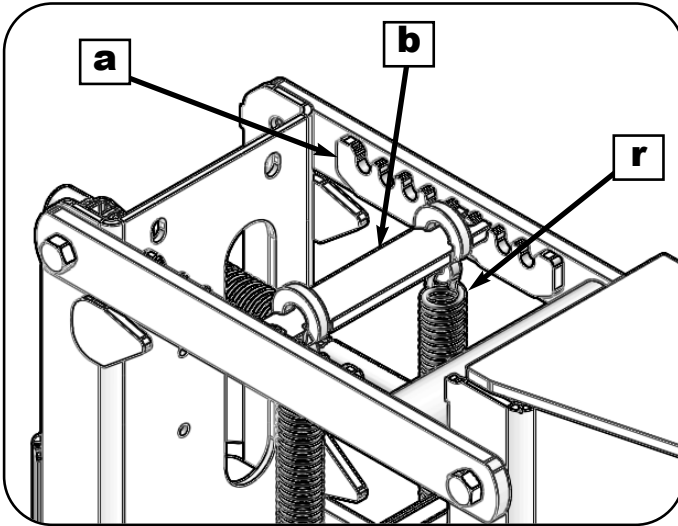


- From left to right:
- * Round rubber band
 - * Trapezoidal rubber band
 - * Iron
 - * Notched disk

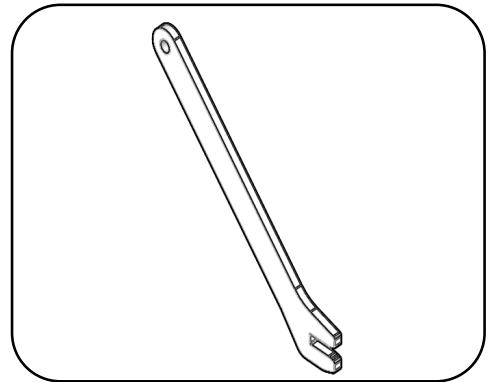
Downforce adjustment system:

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.

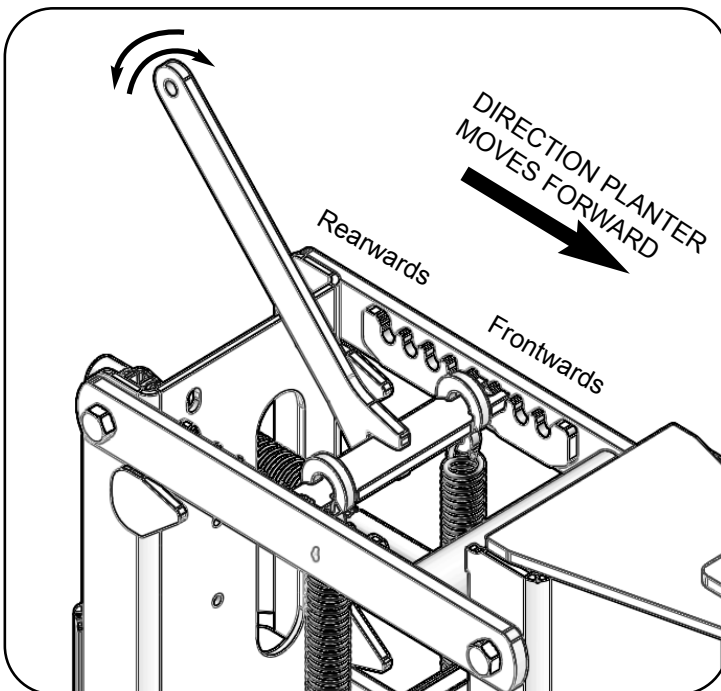


The system contains a notched adjustment (a), two spring loaded downforce units (r) whose operation depend on their position. These springs are clamped to a drive arm (b), which moves them towards the different positions of the notched adjustment.



Handle to operate downforce adjustment system

Handle position for later downforce adjustment system activation.



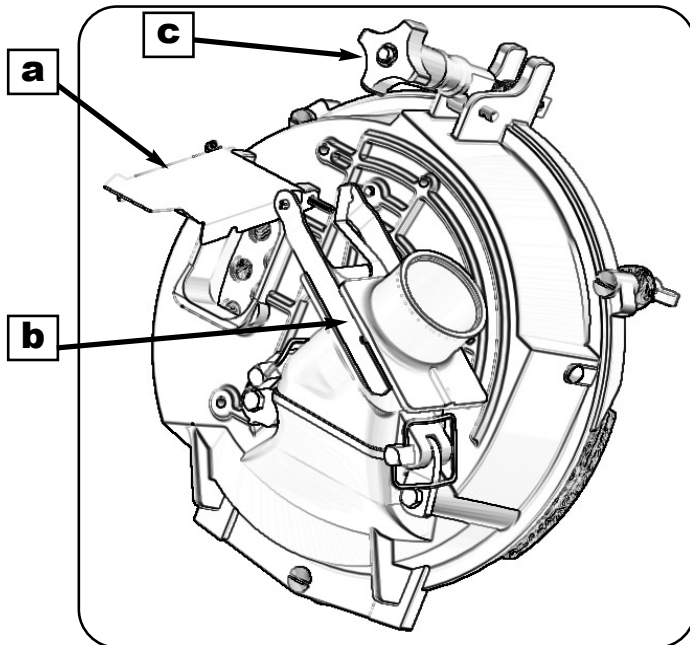
The more frontwards the drive arm is moved (b) is moved, the lighter the load on the row units will be. *(Recommended for loose or worked soils.)*

The more rearwards the arm (b) is moved, the heavier the load on the row units will be. *(Recommended for hard or compact soils.)*

Seed meter:

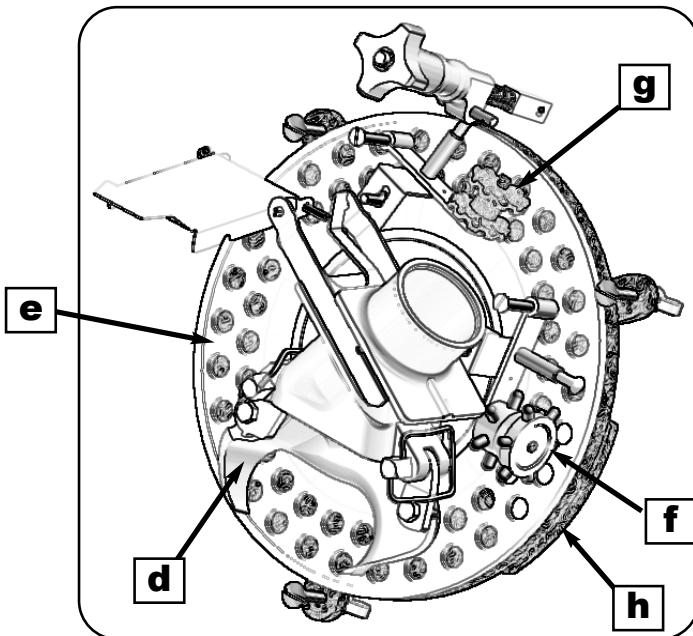
The inclined disk metering system offers the following features:

- * Excellent seed treatment.
- * Distribution accuracy.
- * No inner overloading.
- * Side fall avoids seed bouncing inside the unloading 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 see 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.

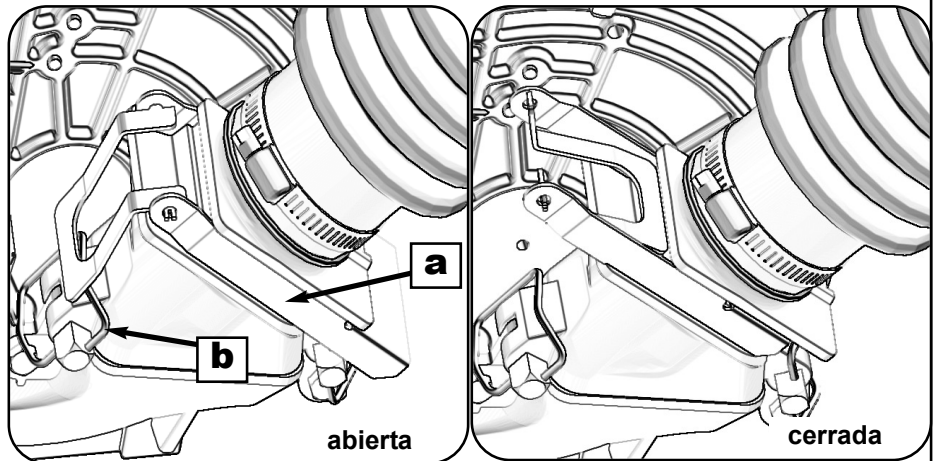
h- Back ring cover: polished surface to avoid seed damage during transport.

(*)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 unloading seed tube towards the bottom of the row, avoiding seed bouncing which could alter distribution.

Removing the meter from the planter:

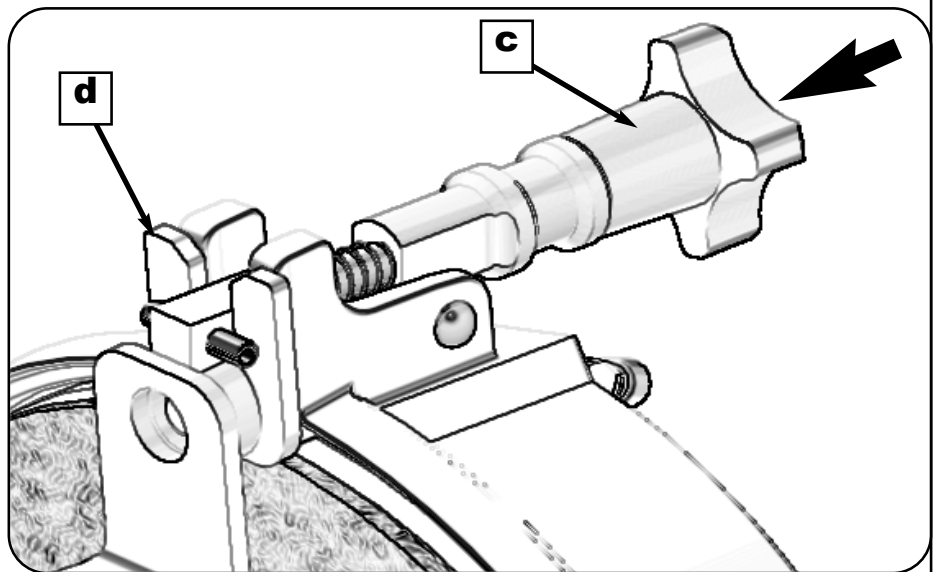
1- Block seed inlet to the meter by closing the sliding plate “(a)”

2- Remove both square cotter pins (b) and release the meter from the unloading 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)

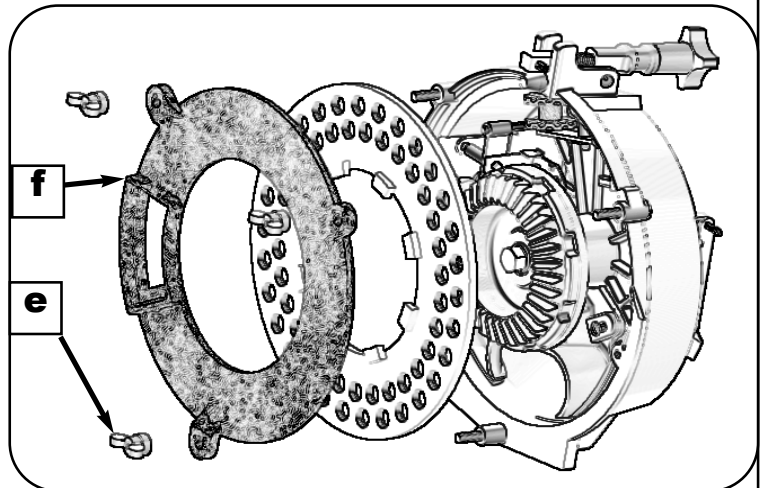
2- Remove the back ring cover (f)

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.

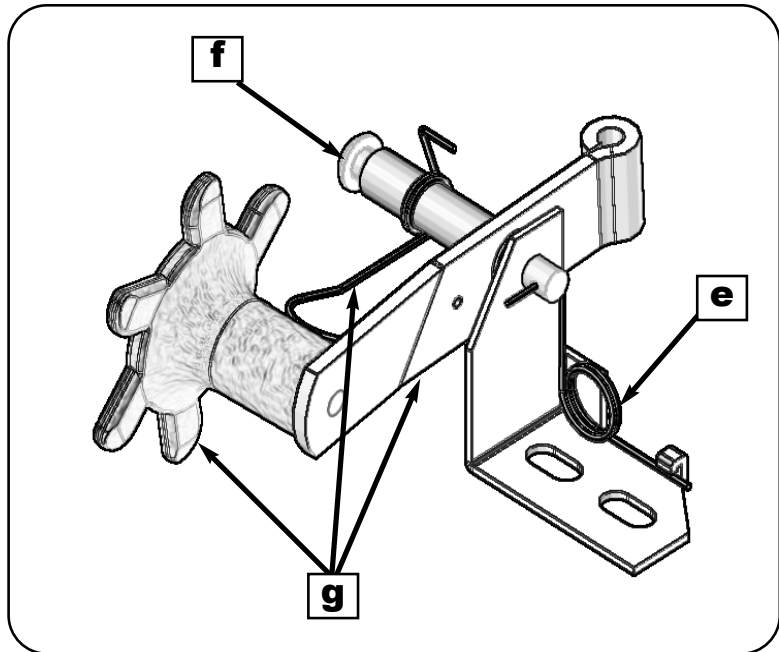


NOTE: When using the corn plate, do not forget to place the stripper wheel. Remove it when changing the seed type.

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

Changing the ejecting wheel:

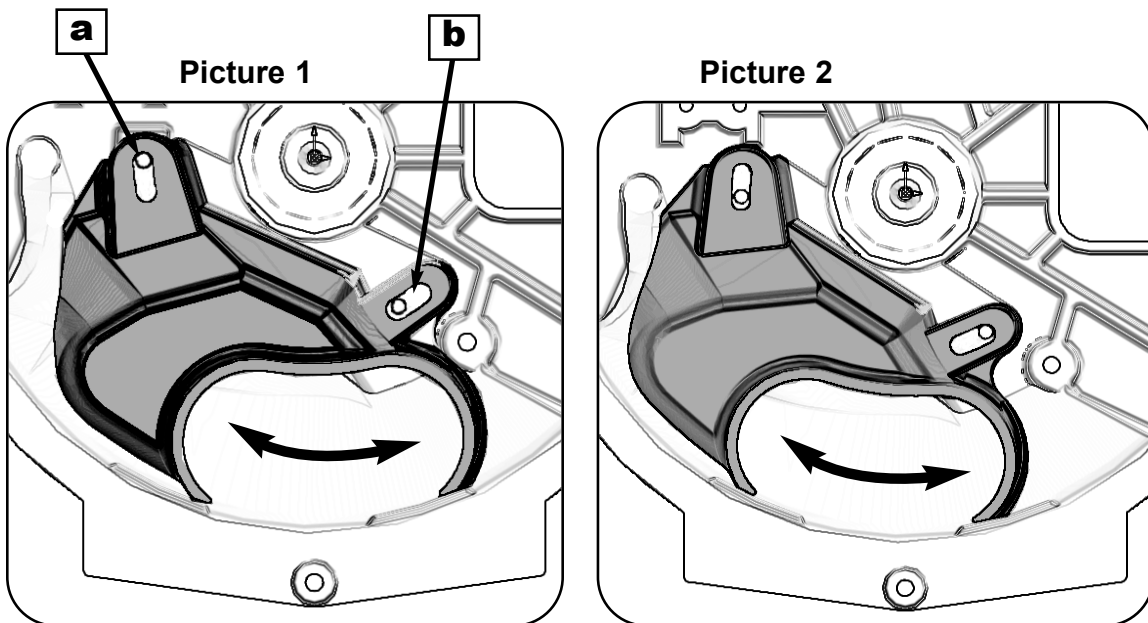
- 1- Unhook the spring (e) from the pin (f).
- 2- Remove the pin (f) in order to free the ejecting wheel kit (g), and remove it from inside the meter.
- 3- Select the ejecting wheel kit corresponding to the new plate, and assemble it repeating the steps previously mentioned in the opposite way.



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 position wanted is achieved, tighten again.

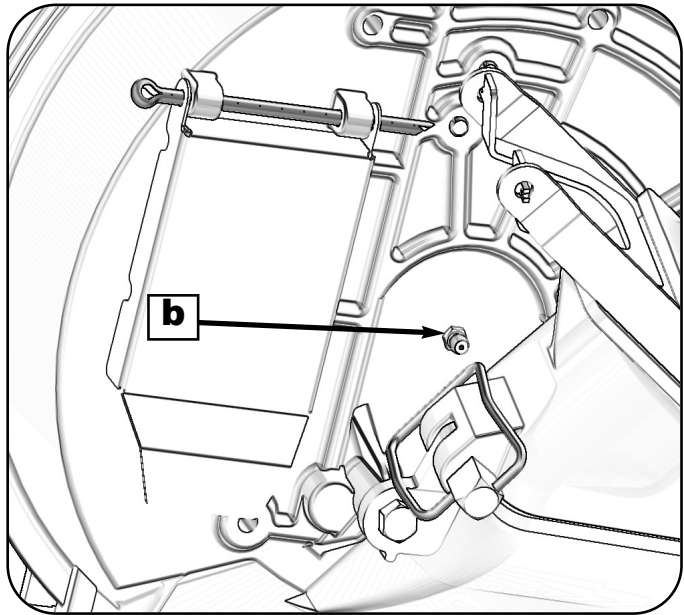


The position indicated in Picture 1, shows the adjustment closest point, which is recommended for small grain. Picture 2 instead, indicates the adjustment completely open, recommended to keep the volume with coarse grain.

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.

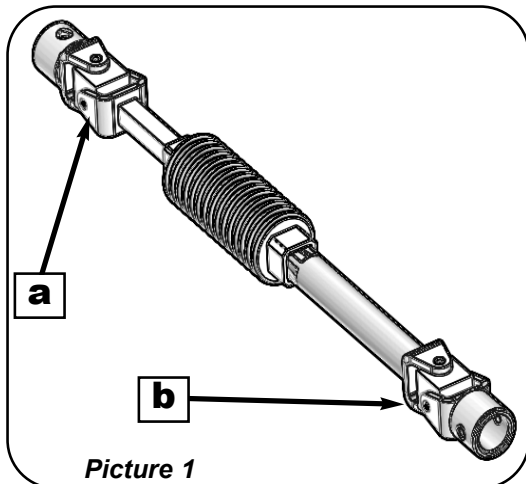
Lubrication should be generous but not excessive, with regular intervals.



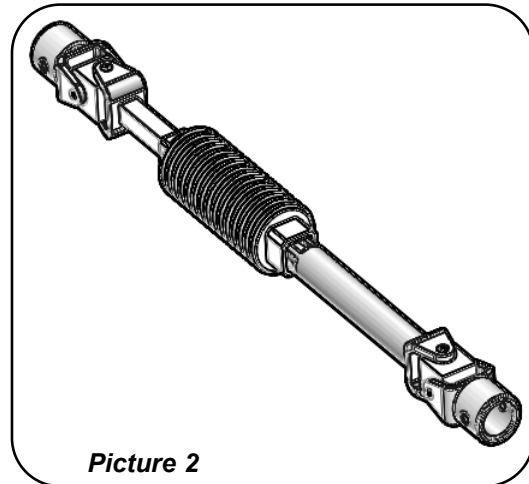
Meter transmission:

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



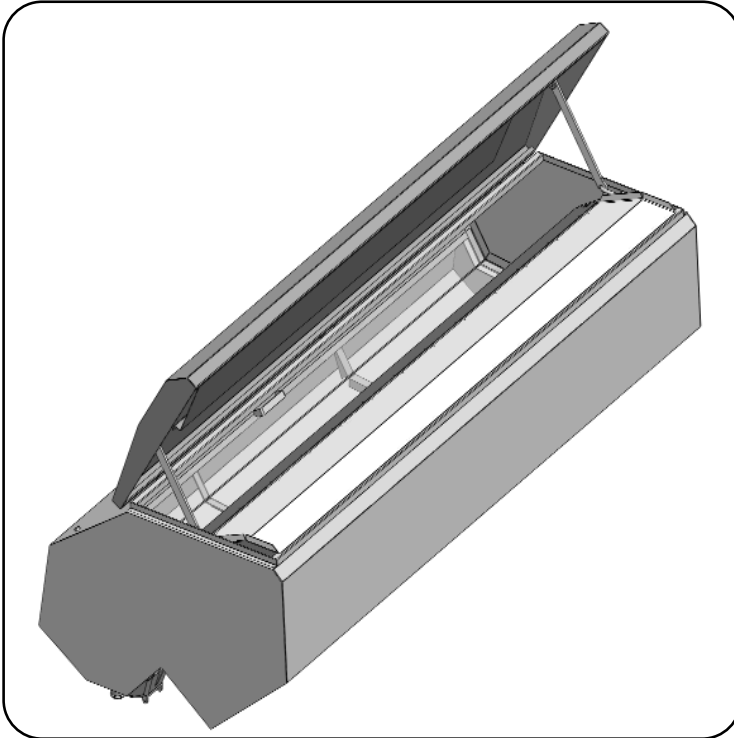
Correct assembly



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 pressed plate steel and they present the following features:



Versions:

- 3 outlet box at 500mm spacing
- 4 outlet box at 400mm spacing
- 4 outlet box at 500mm spacing
- 5 outlet box at 400mm spacing
- 5 outlet box at 500mm spacing

WARNING:

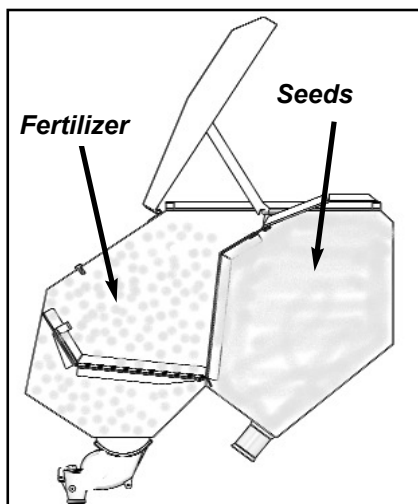
Always empty the boxes when transporting the machine



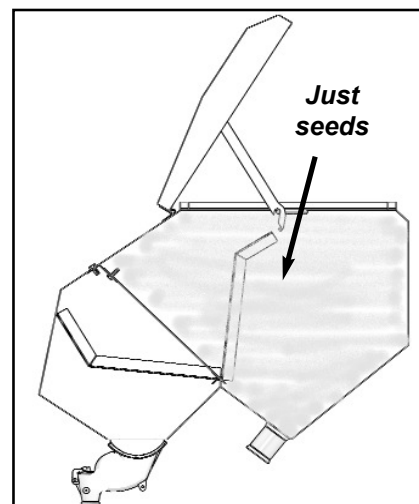
Capacity:

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

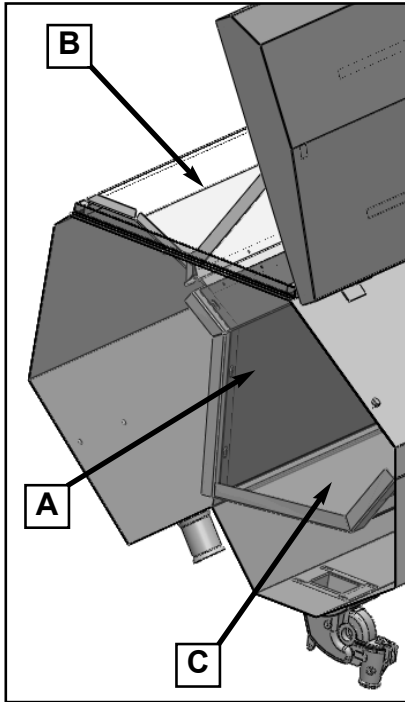
Box with compartments



Box with deflector for using one product

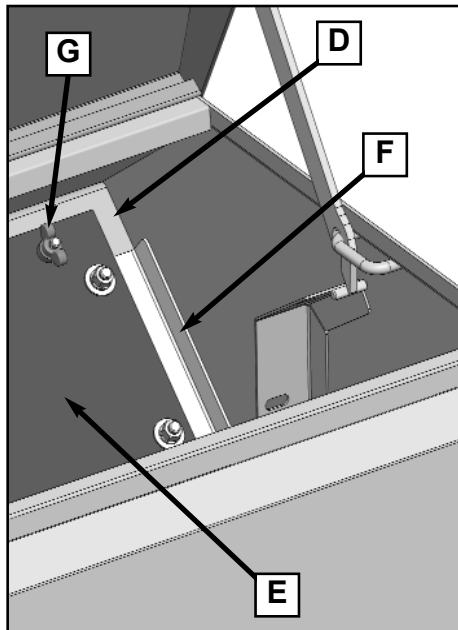


Location of box interior components for each situation:



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 together with the deflector **B** should be placed. This last one is joined to the first one by means of a rubber gasket, and protects the seeds sector.

In the fertilizer sector, the rack **C** should be placed, which filters the product so that it arrives at the meters clean.



If the box is going to be used just for seeds, all the mentioned components should be removed: separator, *deflector and rack*.

The interior support **D** should be put on their place, using the guide bolts which are welded at the side of the box.

Outside, assemble the deflector for one product **E** with the left and right supports **F**. Bolt these three components and place them in the interior of the box, using the interior support guides **D** in order to position it correctly.

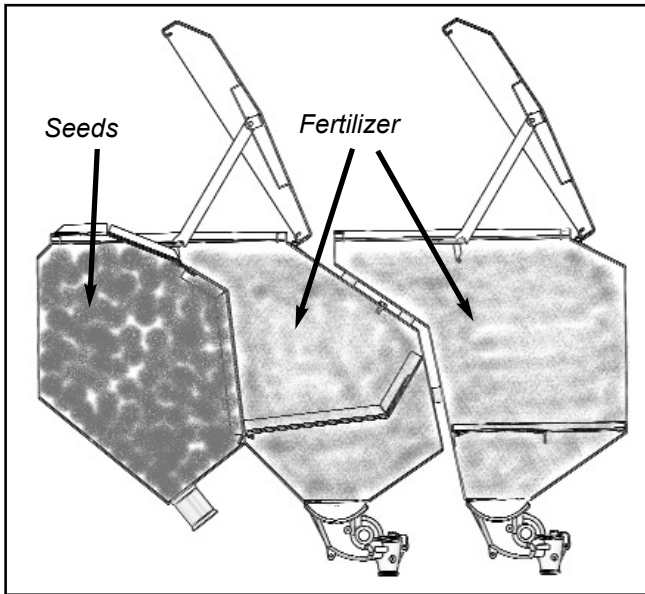
Tighten the position with the wing nuts **G**.

Front box for fertilizer:

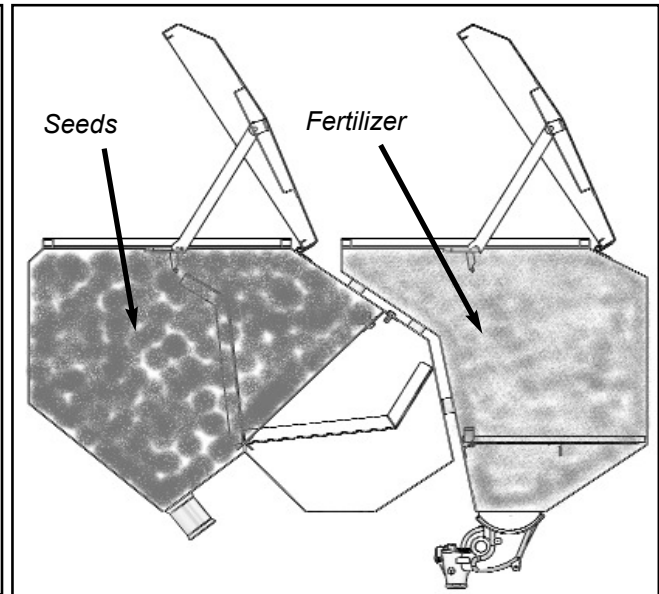
Apart from the seed/fertilizer compartment boxes, the machine has front boxes which are exclusively for fertilizer.

These boxes are used for double fertilization, and single fertilization when the compartment box is used just with seeds.

Double fertilization diagram



Single fertilization diagram



Using the compartment box with just one product increases the product autonomy. In this case the “chevron” type wheel meter line should be removed from the double box, and reverse their position in the front fertilizer box, as shown in “Single fertilization diagram”.

The individual capacity of the box is the following:

	Seed capacity (dm³)	Fertilizer capacity (dm³)	Seeds only (dm³)	Front box for Fertilizer
3 outlet box at 500mm	260,4	270,8	375,9	319,5
4 outlet box at 400mm	298,1	310,0	430,4	365,8
4 outlet box at 500mm	354,7	368,9	512,1	435,3
5 outlet box at 400mm	373,6	388,5	539,4	458,5
5 outlet box at 500mm	449,0	467,0	648,3	551,1

It is given in dm³ 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 their the capacity in kilograms.

Eg.:P.e. corn:
0.75kg/dm³

$0.75\text{kg/dm}^3 \times 260.4\text{dm}^3 = 195.3\text{kg}$

ADJUSTMENT - 19

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 several boxes, and in some cases they are different. The total capacity per machine is detailed in the following chart:

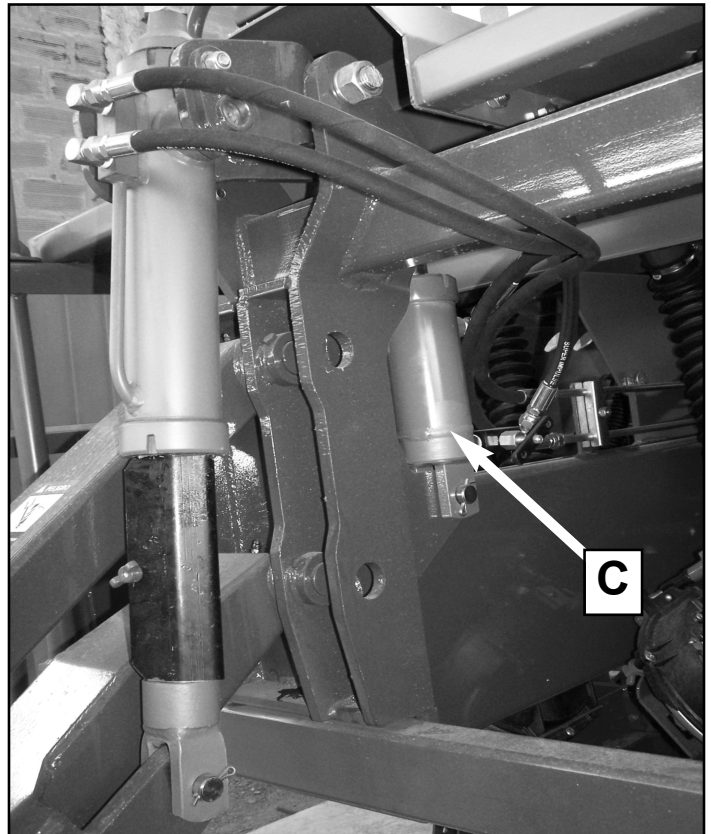
		SEEDS (dm3)	FERTILIZER (dm3)	ONLY SEEDS (dm3)	FRONT BOX FOR FERTILIZER (dm3)
10 rows at 400mm	2 (5 outlet box at 400mm)	747,2	777,0	1078,7	916,9
10 rows at 525mm	2 (5 outlet box at 500mm)	898,1	933,9	1296,7	1102,2
14 rows at 525mm	2 (3 outlet box at 500mm) · 2 (4 outlet box at 500mm)	1230,2	1279,3	1776,1	1509,7
16 rows at 400mm	4 (4 outlet box at 400mm)	1192,4	1240,0	1721,6	1463,4
16 rows at 525mm	4 (4 outlet box at 500mm)	1418,8	1475,5	2048,5	1741,2
20 rows at 400mm	4 (5 outlet box at 400mm)	1494,3	1554,0	2157,5	1833,8
20 rows at 525mm	4 (5 outlet box at 500mm)	1796,2	1867,9	2593,3	2204,3
24 rows at 400mm	6 (4 outlet box at 400mm)	1788,6	1860,0	2582,4	2195,0
26 rows at 525mm	4 (4 outlet box at 500mm) · 2 (5 outlet box at 500mm)	2316,9	2409,4	3345,2	2843,4
28 rows at 400mm	4 (5 outlet box at 400mm) · 2 (4 outlet box at 400mm)	2090,5	2174,0	3018,3	2565,5

Compensator cylinders:

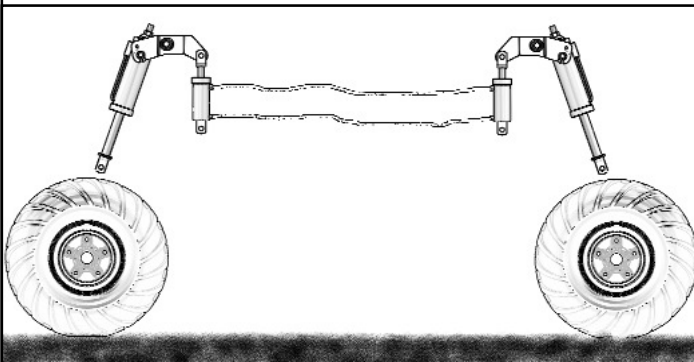
The compensator cylinders "C" help in keeping the mainframe levelled to the ground.

They do not have hoses connected to the tractor as they should NEVER be touched by the operator.

They have a factory made adjustment, which must not be altered, in order to make sure the compensation system works correctly.



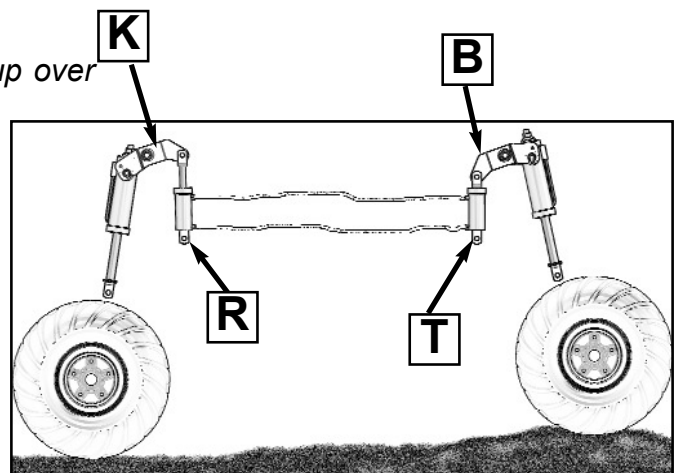
Compensation system explanation diagram: Example 1

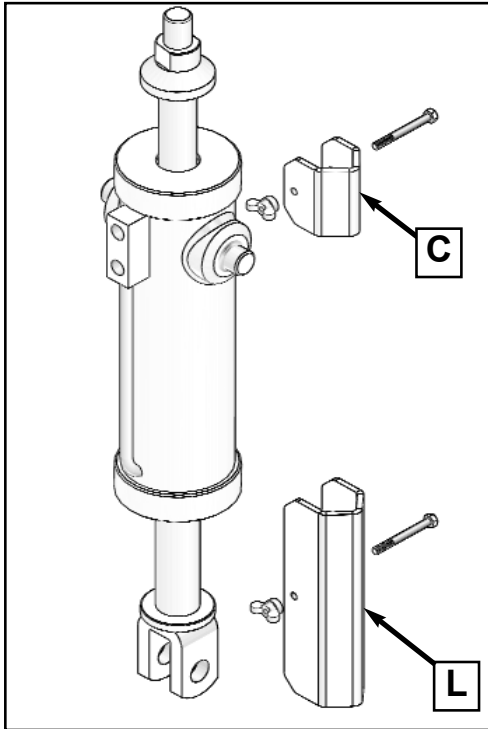


Both cylinders are connected to each other, lower part to lower part on even ground. There are not many variations.

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.

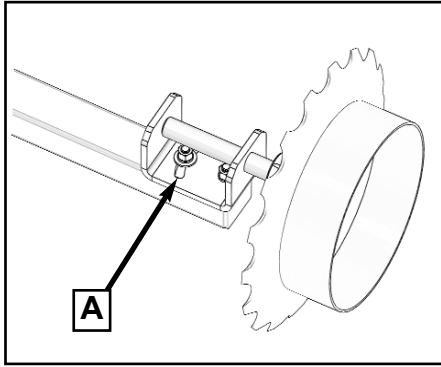
How to place the safety locks in the cylinders:

- 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".

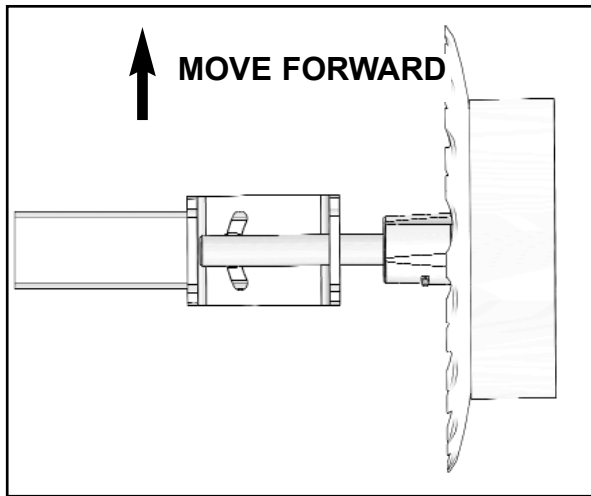


IMPORTANT: It is very important to remove all the pressure from the hydraulic system when the machine is being transported, stored or repaired. Always use the cylinder locks "L". They should only be removed while seeding.

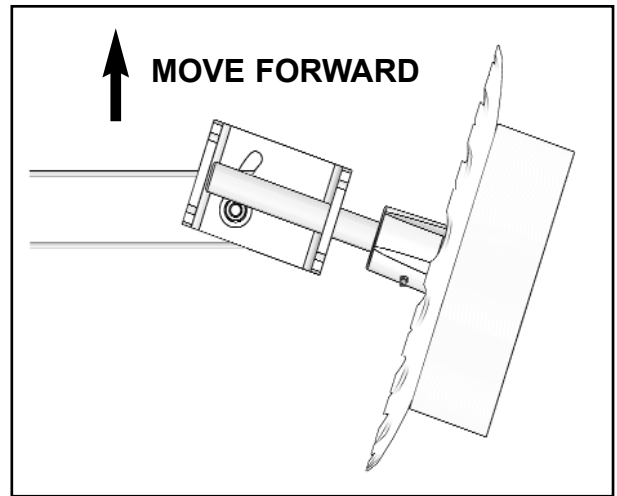
Marker adjustment:



As well as the opener disks, the markers also suffer the consequences of the soil conditions 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 move forward position for hard soils. The larger the angle, the more penetration capacity.

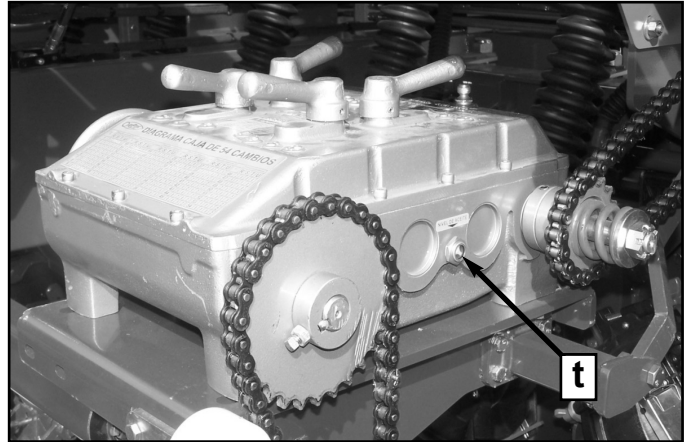
To adjust the marker adjustment, loosen the nut in point "A", and turn the complete support and marker disk set.

Transmisión adjustments:

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

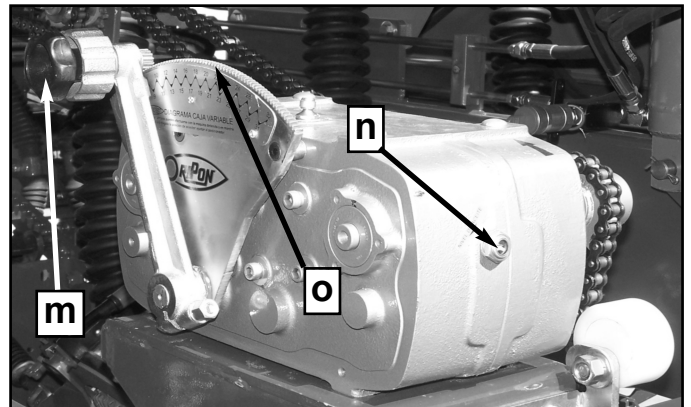
Once the number of seeds per meter to be seeded is defined, corroborate which is the appropriate shift to reach it. Place the levers corresponding to that shift.

IMPORTANT: Check oil level in the box. The correct capacity is set by the display plug (t). The gearbox uses SAE 80W90 Oil - Hipoid transmission



Fertilizer rate is adjusted by means of a speed variator which has 32 gears officially declared, but due to its the notched adjustment method (o), it offers a wide range of options between gear 1 and 32.

In order to adjust, the amount to meter in the hectare should be defined in the fertilizer rate chart, the gear number should be identified and the knob (m) should be turned until it reaches it. All in-between options are left up to the operator's experience.



IMPORTANT: Check the oil level in the box. The correct capacity is set by the viewer plug (n). The gearbox uses SAE 80W90 Oil - Hipoid transmission

Fertilizer meter:

Fertilizer metering is carried out with the “forced supply” method, with “chevron type” wheel.

*** Display:**

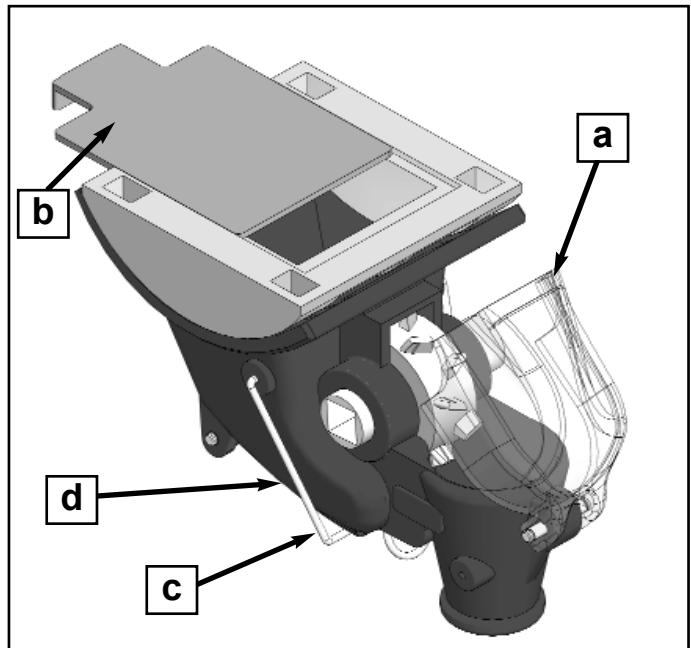
The correct performance of the meter can be controlled at any time, as the upper cover (a) is transparent.

*** Cut off:**

In order to cut off the meter performance, close the sliding plate (b). Fertilizer inlet into the meter will be stopped.

*** Emptying:**

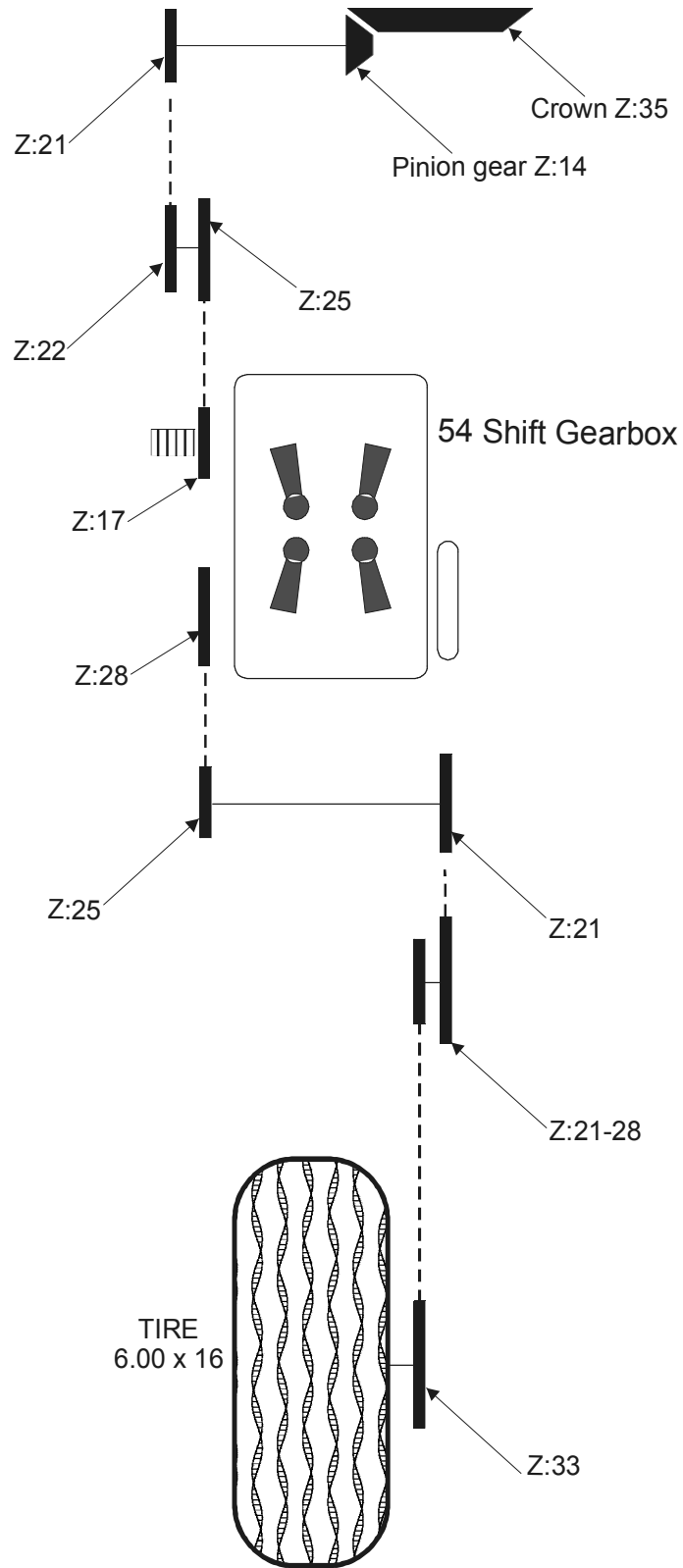
In order to empty the meter and/or box content, move the lock (c) and open the lower compartment (d).



It is recommended to clean the meter with water always after work. In case detergent is used, it should be innocuous.

IMPORTANT: When starting work, make sure the meters work properly.

Transmission for mechanical meter and 54 shift gearbox.:



SEED RATE CHARTS WITH PLATE: Rate adjustment by means of "54 shift gearbox"

Variable factors such us: seed quality, specific weight, added products, environment, seeding speed, inflation pressure of tires, 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.

SEED RATE CHARTS - APACHE 27000

SEED RATE CHARTS - APACHE 27000										CORN - 60 CELL							
Shift	HANDLE POSITION				Seed	Seed by ha	Seed by ha	Seed by ha	Shift	HANDLE POSITION				Seed	Seed by ha	Seed by ha	Seed by ha
					by m	at 400 mm	at 525 mm	at 700 mm						by m	at 400 mm	at 525 mm	at 700 mm
1	R2	S2	T2	U1	1,78	44425	33847	25386	28	R2	S2	T1	U1	8,16	203992	155422	116567
2	R3	S2	T2	U1	1,92	48092	36641	27481	29	R2	S1	T3	U1	8,55	213705	162823	122117
3	R1	S2	T2	U1	2,08	52011	39628	29721	30	R3	S2	T1	U1	8,83	220829	168251	126188
4	R2	S2	T2	U3	2,27	56765	43250	32437	31	R3	S1	T3	U1	9,25	231345	176263	132197
5	R3	S2	T2	U3	2,46	61450	46819	35115	32	R1	S2	T1	U1	9,55	238827	181964	136473
6	R1	S2	T2	U3	2,66	66459	50635	37977	33	R1	S1	T3	U1	10,01	250200	190629	142972
7	R2	S2	T2	U2	2,89	72190	55002	41252	34	R2	S2	T1	U3	10,43	260656	198595	148946
8	R3	S2	T2	U2	3,13	78149	59542	44657	35	R2	S1	T3	U3	10,92	273068	208052	156039
9	R1	S2	T2	U2	3,38	84518	64395	48296	36	R3	S2	T1	U3	11,29	282170	214987	161240
10	R2	S2	T3	U1	3,81	95196	72530	54398	37	R3	S1	T3	U3	11,82	295607	225224	168918
11	R2	S1	T2	U1	3,99	99729	75984	56988	38	R1	S2	T1	U3	12,21	305168	232509	174382
12	R3	S2	T3	U1	4,12	103053	78517	58888	39	R1	S1	T3	U3	12,79	319700	243581	182686
13	R3	S1	T2	U1	4,32	107961	82256	61692	40	R2	S2	T1	U2	13,26	331486	252561	189421
14	R1	S2	T3	U1	4,46	111453	84916	63687	41	R2	S1	T3	U2	13,89	347271	264588	198441
15	R1	S1	T2	U1	4,67	116760	88960	66720	42	R3	S2	T1	U2	14,35	358847	273407	205055
16	R2	S2	T3	U3	4,87	121639	92678	69508	43	R3	S1	T3	U2	15,04	375935	286427	214820
17	R2	S1	T2	U3	5,10	127432	97091	72818	44	R1	S2	T1	U2	15,52	388095	295691	221768
18	R3	S2	T3	U3	5,27	131679	100327	75245	45	R1	S1	T3	U2	16,26	406575	309772	232329
19	R3	S1	T2	U3	5,52	137950	105105	78829	46	R2	S1	T1	U1	18,32	457940	348907	261680
20	R1	S2	T3	U3	5,70	142412	108504	81378	47	R3	S1	T1	U1	19,83	495738	377705	283279
21	R1	S1	T2	U3	5,97	149193	113671	85253	48	R1	S1	T1	U1	21,45	536143	408490	306368
22	R2	S2	T3	U2	6,19	154694	117862	88396	49	R2	S1	T1	U3	23,41	585146	445825	334369
23	R2	S1	T2	U2	6,48	162060	123474	92606	50	R3	S1	T1	U3	25,34	633443	482624	361968
24	R3	S2	T3	U2	6,70	167462	127590	95693	51	R1	S1	T1	U3	27,40	685072	521960	391470
25	R3	S1	T2	U2	7,02	175436	133666	100249	52	R2	S1	T1	U2	29,77	744153	566973	425230
26	R1	S2	T3	U2	7,24	181111	137989	103492	53	R3	S1	T1	U2	32,22	805575	613771	460328
27	R1	S1	T2	U2	7,59	189735	144560	108420	54	R1	S1	T1	U2	34,85	871233	663797	497847

SEED RATE CHARTS - APACHE 27000

Shift	HANDLE POSITION				Seed	Seed by ha	Seed by ha	Seed by ha	Shift	HANDLE POSITION				Seed	Seed by ha	Seed by ha	Seed by ha
					by m	at 400 mm	at 525 mm	at 700 mm						by m	at 400 mm	at 525 mm	at 700 mm
1	R2	S2	T2	U1	0,36	8885	6769	5077	28	R2	S2	T1	U1	1,63	40798	31084	23313
2	R3	S2	T2	U1	0,38	9618	7328	5496	29	R2	S1	T3	U1	1,71	42741	32565	24423
3	R1	S2	T2	U1	0,42	10402	7926	5944	30	R3	S2	T1	U1	1,77	44166	33650	25238
4	R2	S2	T2	U3	0,45	11353	8650	6487	31	R3	S1	T3	U1	1,85	46269	35253	26439
5	R3	S2	T2	U3	0,49	12290	9364	7023	32	R1	S2	T1	U1	1,91	47765	36393	27295
6	R1	S2	T2	U3	0,53	13292	10127	7595	33	R1	S1	T3	U1	2,00	50040	38126	28594
7	R2	S2	T2	U2	0,58	14438	11000	8250	34	R2	S2	T1	U3	2,09	52131	39719	29789
8	R3	S2	T2	U2	0,63	15630	11908	8931	35	R2	S1	T3	U3	2,18	54614	41610	31208
9	R1	S2	T2	U2	0,68	16904	12879	9659	36	R3	S2	T1	U3	2,26	56434	42997	32248
10	R2	S2	T3	U1	0,76	19039	14506	10880	37	R3	S1	T3	U3	2,36	59121	45045	33784
11	R2	S1	T2	U1	0,80	19946	15197	11398	38	R1	S2	T1	U3	2,44	61034	46502	34876
12	R3	S2	T3	U1	0,82	20611	15703	11778	39	R1	S1	T3	U3	2,56	63940	48716	36537
13	R3	S1	T2	U1	0,86	21592	16451	12338	40	R2	S2	T1	U2	2,65	66297	50512	37884
14	R1	S2	T3	U1	0,89	22291	16983	12737	41	R2	S1	T3	U2	2,78	69454	52918	39688
15	R1	S1	T2	U1	0,93	23352	17792	13344	42	R3	S2	T1	U2	2,87	71769	54681	41011
16	R2	S2	T3	U3	0,97	24328	18536	13902	43	R3	S1	T3	U2	3,01	75187	57285	42964
17	R2	S1	T2	U3	1,02	25486	19418	14564	44	R1	S2	T1	U2	3,10	77619	59138	44354
18	R3	S2	T3	U3	1,05	26336	20065	15049	45	R1	S1	T3	U2	3,25	81315	61954	46466
19	R3	S1	T2	U3	1,10	27590	21021	15766	46	R2	S1	T1	U1	3,66	91588	69781	52336
20	R1	S2	T3	U3	1,14	28482	21701	16276	47	R3	S1	T1	U1	3,97	99148	75541	56656
21	R1	S1	T2	U3	1,19	29839	22734	17051	48	R1	S1	T1	U1	4,29	107229	81698	61274
22	R2	S2	T3	U2	1,24	30939	23572	17679	49	R2	S1	T1	U3	4,68	117029	89165	66874
23	R2	S1	T2	U2	1,30	32412	24695	18521	50	R3	S1	T1	U3	5,07	126689	96525	72394
24	R3	S2	T3	U2	1,34	33492	25518	19139	51	R1	S1	T1	U3	5,48	137014	104392	78294
25	R3	S1	T2	U2	1,40	35087	26733	20050	52	R2	S1	T1	U2	5,95	148831	113395	85046
26	R1	S2	T3	U2	1,45	36222	27598	20698	53	R3	S1	T1	U2	6,44	161115	122754	92066
27	R1	S1	T2	U2	1,52	37947	28912	21684	54	R1	S1	T1	U2	6,97	174247	132759	99569

SEED RATE CHARTS WITH PLATE: Rate adjustment by means of "54 shift gearbox"

Variable factors such us: seed quality, specific weight, added products, environment, seeding speed, inflation pressure of tires, 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.

SEED RATE CHARTS - APACHE 27000

Shift	HANDLE POSITION					Seed	Seed by ha	Seed by ha	Seed by ha	Shift	HANDLE POSITION					Seed	Seed by ha	Seed by ha	Seed by ha
						by m	at 400 mm	at 525 mm	at 700 mm							by m	at 400 mm	at 525 mm	at 700 mm
1	R2	S2	T2	U1	3,55	88850	67695	50771	28	R2	S2	T1	U1	16,32	407983	310844	233133		
2	R3	S2	T2	U1	3,85	96183	73282	54962	29	R2	S1	T3	U1	17,10	427411	325646	244235		
3	R1	S2	T2	U1	4,16	104023	79255	59442	30	R3	S2	T1	U1	17,67	441658	336501	252376		
4	R2	S2	T2	U3	4,54	113530	86499	64874	31	R3	S1	T3	U1	18,51	462689	352525	264394		
5	R3	S2	T2	U3	4,92	122901	93639	70229	32	R1	S2	T1	U1	19,11	477655	363928	272946		
6	R1	S2	T2	U3	5,32	132918	101271	75953	33	R1	S1	T3	U1	20,02	500400	381257	285943		
7	R2	S2	T2	U2	5,78	144381	110004	82503	34	R2	S2	T1	U3	20,85	521312	397190	297892		
8	R3	S2	T2	U2	6,25	156298	119084	89313	35	R2	S1	T3	U3	21,85	546136	416104	312078		
9	R1	S2	T2	U2	6,76	169037	128790	96592	36	R3	S2	T1	U3	22,57	564341	429974	322480		
10	R2	S2	T3	U1	7,62	190392	145061	108795	37	R3	S1	T3	U3	23,65	591214	450449	337836		
11	R2	S1	T2	U1	7,98	199458	151968	113976	38	R1	S2	T1	U3	24,41	610337	465019	348764		
12	R3	S2	T3	U1	8,24	206107	157034	117775	39	R1	S1	T3	U3	25,58	639401	487162	365372		
13	R3	S1	T2	U1	8,64	215922	164512	123384	40	R2	S2	T1	U2	26,52	662972	505122	378841		
14	R1	S2	T3	U1	8,92	222906	169833	127375	41	R2	S1	T3	U2	27,78	694543	529175	396881		
15	R1	S1	T2	U1	9,34	233520	177920	133440	42	R3	S2	T1	U2	28,71	717694	546814	410111		
16	R2	S2	T3	U3	9,73	243279	185355	139016	43	R3	S1	T3	U2	30,07	751870	572853	429640		
17	R2	S1	T2	U3	10,19	254863	194182	145636	44	R1	S2	T1	U2	31,05	776189	591382	443537		
18	R3	S2	T3	U3	10,53	263359	200654	150491	45	R1	S1	T3	U2	32,53	813151	619543	464658		
19	R3	S1	T2	U3	11,04	275900	210209	157657	46	R2	S1	T1	U1	36,64	915880	697814	523360		
20	R1	S2	T3	U3	11,39	284824	217009	162757	47	R3	S1	T1	U1	39,66	991477	755411	566558		
21	R1	S1	T2	U3	11,94	298387	227342	170507	48	R1	S1	T1	U1	42,89	1072287	816980	612735		
22	R2	S2	T3	U2	12,38	309387	235724	176793	49	R2	S1	T1	U3	46,81	1170291	891651	668738		
23	R2	S1	T2	U2	12,96	324120	246948	185211	50	R3	S1	T1	U3	50,68	1266887	965247	723935		
24	R3	S2	T3	U2	13,40	334924	255180	191385	51	R1	S1	T1	U3	54,81	1370144	1043919	782939		
25	R3	S1	T2	U2	14,03	350873	267331	200499	52	R2	S1	T1	U2	59,53	1488305	1133947	850460		
26	R1	S2	T3	U2	14,49	362222	275978	206984	53	R3	S1	T1	U2	64,45	1611150	1227543	920657		
27	R1	S1	T2	U2	15,18	379470	289120	216840	54	R1	S1	T1	U2	69,70	1742466	1327593	995695		

SEED RATE CHARTS WITH PLATE: Rate adjustment by means of "54 shift gearbox"

SEED RATE CHARTS - 04

Variable factors such us: seed quality, specific weight, added products, environment, seeding speed, inflation pressure of tires, 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.

SEED RATE CHARTS WITH PLATE: Rate adjustment by means of "54 shift gearbox"

Variable factors such us: seed quality, specific weight, added products, environment, seeding speed, inflation pressure of tires, 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.

SEED RATE CHARTS - APACHE 27000

SORGHUM -132 CELL

Shift	HANDLE POSITION					Seed by m	Seed by ha at 400 mm	Seed by ha at 525 mm	Seed by ha at 700 mm	Shift	HANDLE POSITION					Seed by m	Seed by ha at 400 mm	Seed by ha at 525 mm	Seed by ha at 700 mm
1	R2	S2	T2	U1	3,91	97735	74464	55848	28	R2	S2	T1	U1	17,95	448781	341929	256446		
2	R3	S2	T2	U1	4,23	105802	80611	60458	29	R2	S1	T3	U1	18,81	470152	358211	268658		
3	R1	S2	T2	U1	4,58	114425	87181	65386	30	R3	S2	T1	U1	19,43	485824	370151	277613		
4	R2	S2	T2	U3	5,00	124883	95149	71362	31	R3	S1	T3	U1	20,36	508958	387778	290833		
5	R3	S2	T2	U3	5,41	135191	103003	77252	32	R1	S2	T1	U1	21,02	525420	400320	300240		
6	R1	S2	T2	U3	5,85	146210	111398	83548	33	R1	S1	T3	U1	22,02	550441	419383	314537		
7	R2	S2	T2	U2	6,35	158819	121005	90754	34	R2	S2	T1	U3	22,94	573443	436909	327682		
8	R3	S2	T2	U2	6,88	171928	130992	98244	35	R2	S1	T3	U3	24,03	600750	457714	343285		
9	R1	S2	T2	U2	7,44	185940	141669	106252	36	R3	S2	T1	U3	24,83	620775	472971	354728		
10	R2	S2	T3	U1	8,38	209431	159567	119675	37	R3	S1	T3	U3	26,01	650335	495494	371620		
11	R2	S1	T2	U1	8,78	219404	167165	125374	38	R1	S2	T1	U3	26,85	671371	511520	383640		
12	R3	S2	T3	U1	9,07	226718	172737	129553	39	R1	S1	T3	U3	28,13	703341	535879	401909		
13	R3	S1	T2	U1	9,50	237514	180963	135722	40	R2	S2	T1	U2	29,17	729270	555634	416726		
14	R1	S2	T3	U1	9,81	245196	186816	140112	41	R2	S1	T3	U2	30,56	763997	582093	436570		
15	R1	S1	T2	U1	10,27	256872	195712	146784	42	R3	S2	T1	U2	31,58	789463	601496	451122		
16	R2	S2	T3	U3	10,70	267607	203891	152918	43	R3	S1	T3	U2	33,08	827057	630139	472604		
17	R2	S1	T2	U3	11,21	280350	213600	160200	44	R1	S2	T1	U2	34,15	853808	650521	487890		
18	R3	S2	T3	U3	11,59	289695	220720	165540	45	R1	S1	T3	U2	35,78	894466	681498	511123		
19	R3	S1	T2	U3	12,14	303490	231230	173423	46	R2	S1	T1	U1	40,30	1007468	767595	575696		
20	R1	S2	T3	U3	12,53	313306	238710	179032	47	R3	S1	T1	U1	43,62	1090624	830952	623214		
21	R1	S1	T2	U3	13,13	328226	250077	187558	48	R1	S1	T1	U1	47,18	1179515	898678	674009		
22	R2	S2	T3	U2	13,61	340326	259296	194472	49	R2	S1	T1	U3	51,49	1287321	980816	735612		
23	R2	S1	T2	U2	14,26	356532	271643	203732	50	R3	S1	T1	U3	55,74	1393576	1061772	796329		
24	R3	S2	T3	U2	14,74	368416	280698	210524	51	R1	S1	T1	U3	60,29	1507159	1148311	861233		
25	R3	S1	T2	U2	15,44	385960	294065	220548	52	R2	S1	T1	U2	65,49	1637136	1247342	935506		
26	R1	S2	T3	U2	15,94	398444	303576	227682	53	R3	S1	T1	U2	70,89	1772265	1350297	1012723		
27	R1	S1	T2	U2	16,70	417417	318032	238524	54	R1	S1	T1	U2	76,67	1916712	1460352	1095264		

SEED RATE CHARTS - APACHE 27000

Shift	HANDLE POSITION					Seed by m	Seed by ha at 400 mm	Seed by ha at 525 mm	Seed by ha at 700 mm	Shift	HANDLE POSITION					Seed by m	Seed by ha at 400 mm	Seed by ha at 525 mm	Seed by ha at 700 mm
1	R2	S2	T2	U1	0,89	22212	16924	12693	28	R2	S2	T1	U1	4,08	101996	77711	58283		
2	R3	S2	T2	U1	0,96	24046	18321	13740	29	R2	S1	T3	U1	4,27	106853	81412	61059		
3	R1	S2	T2	U1	1,04	26006	19814	14860	30	R3	S2	T1	U1	4,42	110414	84125	63094		
4	R2	S2	T2	U3	1,14	28383	21625	16219	31	R3	S1	T3	U1	4,63	115672	88131	66098		
5	R3	S2	T2	U3	1,23	30725	23410	17557	32	R1	S2	T1	U1	4,78	119414	90982	68236		
6	R1	S2	T2	U3	1,33	33229	25318	18988	33	R1	S1	T3	U1	5,00	125100	95314	71486		
7	R2	S2	T2	U2	1,44	36095	27501	20626	34	R2	S2	T1	U3	5,21	130328	99297	74473		
8	R3	S2	T2	U2	1,56	39074	29771	22328	35	R2	S1	T3	U3	5,46	136534	104026	78019		
9	R1	S2	T2	U2	1,69	42259	32197	24148	36	R3	S2	T1	U3	5,64	141085	107493	80620		
10	R2	S2	T3	U1	1,90	47598	36265	27199	37	R3	S1	T3	U3	5,91	147803	112612	84459		
11	R2	S1	T2	U1	1,99	49865	37992	28494	38	R1	S2	T1	U3	6,10	152584	116255	87191		
12	R3	S2	T3	U1	2,06	51527	39258	29444	39	R1	S1	T3	U3	6,39	159850	121791	91343		
13	R3	S1	T2	U1	2,16	53980	41128	30846	40	R2	S2	T1	U2	6,63	165743	126280	94710		
14	R1	S2	T3	U1	2,23	55726	42458	31844	41	R2	S1	T3	U2	6,95	173636	132294	99220		
15	R1	S1	T2	U1	2,34	58380	44480	33360	42	R3	S2	T1	U2	7,18	179423	136704	102528		
16	R2	S2	T3	U3	2,43	60820	46339	34754	43	R3	S1	T3	U2	7,52	187967	143213	107410		
17	R2	S1	T2	U3	2,55	63716	48545	36409	44	R1	S2	T1	U2	7,76	194047	147846	110884		
18	R3	S2	T3	U3	2,63	65840	50164	37623	45	R1	S1	T3	U2	8,13	203288	154886	116164		
19	R3	S1	T2	U3	2,76	68975	52552	39414	46	R2	S1	T1	U1	9,16	228970	174453	130840		
20	R1	S2	T3	U3	2,85	71206	54252	40689	47	R3	S1	T1	U1	9,91	247869	188853	141640		
21	R1	S1	T2	U3	2,98	74597	56836	42627	48	R1	S1	T1	U1	10,72	268072	204245	153184		
22	R2	S2	T3	U2	3,09	77347	58931	44198	49	R2	S1	T1	U3	11,70	292573	222913	167184		
23	R2	S1	T2	U2	3,24	81030	61737	46303	50	R3	S1	T1	U3	12,67	316722	241312	180984		
24	R3	S2	T3	U2	3,35	83731	63795	47846	51	R1	S1	T1	U3	13,70	342536	260980	195735		
25	R3	S1	T2	U2	3,51	87718	66833	50125	52	R2	S1	T1	U2	14,88	372076	283487	212615		
26	R1	S2	T3	U2	3,62	90555	68995	51746	53	R3	S1	T1	U2	16,11	402787	306886	230164		
27	R1	S1	T2	U2	3,79	94868	72280	54210	54	R1	S1	T1	U2	17,42	435616	331898	248924		

PEANUT AND SUNFLOWER -30 CELL

SEED RATE CHARTS WITH PLATE: Rate adjustment by means of "54 shift gearbox"

SEED RATE CHARTS - 06

Variable factors such us: seed quality, specific weight, added products, environment, seeding speed, inflation pressure of tires, 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.

SEED RATE CHARTS WITH PLATE: Rate adjustment by means of "54 shift gearbox"

Variable factors such us: seed quality, specific weight, added products, environment, seeding speed, inflation pressure of tires, 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.

SEED RATE CHARTS - APACHE 27000

SEED RATE CHARTS - APACHE 27000										BEAN -78 CELL							
Shift	HANDLE POSITION				Seed	Seed by ha	Seed by ha	Seed by ha	Shift	HANDLE POSITION				Seed	Seed by ha	Seed by ha	Seed by ha
					by m	at 400 mm	at 525 mm	at 700 mm					by m	at 400 mm	at 525 mm	at 700 mm	
1	R2	S2	T2	U1	2,31	57752	44002	33001	28	R2	S2	T1	U1	10,61	265189	202049	151537
2	R3	S2	T2	U1	2,50	62519	47634	35725	29	R2	S1	T3	U1	11,11	277817	211670	158753
3	R1	S2	T2	U1	2,70	67615	51516	38637	30	R3	S2	T1	U1	11,48	287078	218726	164044
4	R2	S2	T2	U3	2,95	73795	56224	42168	31	R3	S1	T3	U1	12,03	300748	229141	171856
5	R3	S2	T2	U3	3,20	79886	60865	45649	32	R1	S2	T1	U1	12,42	310476	236553	177415
6	R1	S2	T2	U3	3,46	86397	65826	49369	33	R1	S1	T3	U1	13,01	325260	247817	185863
7	R2	S2	T2	U2	3,75	93847	71503	53627	34	R2	S2	T1	U3	13,55	338853	258173	193630
8	R3	S2	T2	U2	4,06	101594	77405	58053	35	R2	S1	T3	U3	14,20	354988	270467	202851
9	R1	S2	T2	U2	4,39	109874	83713	62785	36	R3	S2	T1	U3	14,67	366821	279483	209612
10	R2	S2	T3	U1	4,95	123755	94289	70717	37	R3	S1	T3	U3	15,37	384289	292792	219594
11	R2	S1	T2	U1	5,19	129648	98779	74085	38	R1	S2	T1	U3	15,87	396719	302262	226697
12	R3	S2	T3	U1	5,36	133970	102072	76554	39	R1	S1	T3	U3	16,62	415610	316656	237492
13	R3	S1	T2	U1	5,61	140349	106933	80199	40	R2	S2	T1	U2	17,24	430932	328329	246247
14	R1	S2	T3	U1	5,80	144889	110391	82794	41	R2	S1	T3	U2	18,06	451453	343964	257973
15	R1	S1	T2	U1	6,07	151788	115648	86736	42	R3	S2	T1	U2	18,66	466501	355429	266572
16	R2	S2	T3	U3	6,33	158131	120481	90361	43	R3	S1	T3	U2	19,55	488715	372355	279266
17	R2	S1	T2	U3	6,63	165661	126218	94664	44	R1	S2	T1	U2	20,18	504523	384399	288299
18	R3	S2	T3	U3	6,85	171183	130425	97819	45	R1	S1	T3	U2	21,14	528548	402703	302027
19	R3	S1	T2	U3	7,17	179335	136636	102477	46	R2	S1	T1	U1	23,81	595322	453579	340184
20	R1	S2	T3	U3	7,41	185136	141056	105792	47	R3	S1	T1	U1	25,78	644460	491017	368263
21	R1	S1	T2	U3	7,76	193952	147773	110829	48	R1	S1	T1	U1	27,88	696986	531037	398278
22	R2	S2	T3	U2	8,04	201102	153220	114915	49	R2	S1	T1	U3	30,43	760689	579573	434680
23	R2	S1	T2	U2	8,43	210678	160516	120387	50	R3	S1	T1	U3	32,94	823476	627411	470558
24	R3	S2	T3	U2	8,71	217700	165867	124400	51	R1	S1	T1	U3	35,62	890594	678548	508911
25	R3	S1	T2	U2	9,12	228067	173765	130324	52	R2	S1	T1	U2	38,70	967398	737066	552799
26	R1	S2	T3	U2	9,42	235444	179386	134539	53	R3	S1	T1	U2	41,89	1047247	797903	598427
27	R1	S1	T2	U2	9,87	246656	187928	140946	54	R1	S1	T1	U2	45,30	1132603	862935	647202

SEED RATE CHARTS - APACHE 27000

SOYBEAN AND BEAN -150 CELL

Shift	HANDLE POSITION				Seed	Seed by ha	Seed by ha	Seed by ha	Shift	HANDLE POSITION				Seed	Seed by ha	Seed by ha	Seed by ha
					by m	at 400 mm	at 525 mm	at 700 mm					by m	at 400 mm	at 525 mm	at 700 mm	
1	R2	S2	T2	U1	4,44	111062	84619	63464	28	R2	S2	T1	U1	20,40	509979	388555	291416
2	R3	S2	T2	U1	4,81	120229	91603	68702	29	R2	S1	T3	U1	21,37	534263	407058	305293
3	R1	S2	T2	U1	5,20	130028	99069	74302	30	R3	S2	T1	U1	22,08	552072	420626	315470
4	R2	S2	T2	U3	5,68	141913	108124	81093	31	R3	S1	T3	U1	23,13	578361	440656	330492
5	R3	S2	T2	U3	6,15	153626	117048	87786	32	R1	S2	T1	U1	23,88	597069	454910	341182
6	R1	S2	T2	U3	6,65	166147	126588	94941	33	R1	S1	T3	U1	25,02	625501	476572	357429
7	R2	S2	T2	U2	7,22	180476	137505	103129	34	R2	S2	T1	U3	26,07	651640	496487	372365
8	R3	S2	T2	U2	7,81	195372	148855	111641	35	R2	S1	T3	U3	27,31	682670	520130	390097
9	R1	S2	T2	U2	8,45	211296	160987	120741	36	R3	S2	T1	U3	28,22	705426	537467	403100
10	R2	S2	T3	U1	9,52	237990	181326	135994	37	R3	S1	T3	U3	29,56	739017	563061	422296
11	R2	S1	T2	U1	9,97	249323	189960	142470	38	R1	S2	T1	U3	30,52	762921	581273	435955
12	R3	S2	T3	U1	10,31	257634	196292	147219	39	R1	S1	T3	U3	31,97	799251	608953	456715
13	R3	S1	T2	U1	10,80	269902	205640	154230	40	R2	S2	T1	U2	33,15	828715	631402	473552
14	R1	S2	T3	U1	11,15	278632	212291	159218	41	R2	S1	T3	U2	34,73	868178	661469	496102
15	R1	S1	T2	U1	11,68	291900	222400	166800	42	R3	S2	T1	U2	35,88	897117	683518	512639
16	R2	S2	T3	U3	12,16	304098	231694	173771	43	R3	S1	T3	U2	37,59	939837	716066	537050
17	R2	S1	T2	U3	12,74	318579	242727	182045	44	R1	S2	T1	U2	38,81	970237	739228	554421
18	R3	S2	T3	U3	13,17	329199	250818	188114	45	R1	S1	T3	U2	40,66	1016438	774429	580822
19	R3	S1	T2	U3	13,79	344875	262762	197071	46	R2	S1	T1	U1	45,79	1144850	872267	654200
20	R1	S2	T3	U3	14,24	356030	271261	203446	47	R3	S1	T1	U1	49,57	1239346	944264	708198
21	R1	S1	T2	U3	14,92	372984	284178	213134	48	R1	S1	T1	U1	53,61	1340358	1021225	765919
22	R2	S2	T3	U2	15,47	386734	294654	220991	49	R2	S1	T1	U3	58,51	1462864	1114563	835922
23	R2	S1	T2	U2	16,21	405150	308686	231514	50	R3	S1	T1	U3	63,34	1583609	1206559	904919
24	R3	S2	T3	U2	16,75	418655	318975	239231	51	R1	S1	T1	U3	68,51	1712680	1304899	978674
25	R3	S1	T2	U2	17,54	438591	334164	250623	52	R2	S1	T1	U2	74,42	1860382	1417434	1063075
26	R1	S2	T3	U2	18,11	452777	344973	258730	53	R3	S1	T1	U2	80,56	2013937	1534428	1150821
27	R1	S1	T2	U2	18,97	474338	361400	271050	54	R1	S1	T1	U2	87,12	2178082	1659491	1244618

Variable factors such us: seed quality, specific weight, added products, environment, seeding speed, inflation pressure of tires, 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.

SEED RATE CHARTS WITH PLATE: Rate adjustment by means of "54 shift gearbox"

SEED RATE CHARTS WITH PLATE: Rate adjustment by means of "54 shift gearbox"

Variable factors such us: seed quality, specific weight, added products, environment, seeding speed, inflation pressure of tires, 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.

SEED RATE CHARTS - APACHE 27000

WHEAT - 150 CELL

Shift	HANDLE POSITION				Kg by ha	Kg by ha	Kg by ha	Shift	HANDLE POSITION				Kg by ha	Kg by ha	Kg by ha
					at 200mm	at 262,5m	at 350mm						at 200m	at 262,5m	at 350m
1	R2	S2	T2	U1	55,4	42,2	31,6	28	R2	S2	T1	U1	254,3	193,8	145,3
2	R3	S2	T2	U1	60,0	45,7	34,3	29	R2	S1	T3	U1	266,4	203,0	152,2
3	R1	S2	T2	U1	64,8	49,4	37,1	30	R3	S2	T1	U1	275,3	209,8	157,3
4	R2	S2	T2	U3	70,8	53,9	40,4	31	R3	S1	T3	U1	288,4	219,7	164,8
5	R3	S2	T2	U3	76,6	58,4	43,8	32	R1	S2	T1	U1	297,7	226,8	170,1
6	R1	S2	T2	U3	82,9	63,1	47,3	33	R1	S1	T3	U1	311,9	237,7	178,2
7	R2	S2	T2	U2	90,0	68,6	51,4	34	R2	S2	T1	U3	325,0	247,6	185,7
8	R3	S2	T2	U2	97,4	74,2	55,7	35	R2	S1	T3	U3	340,4	259,4	194,5
9	R1	S2	T2	U2	105,4	80,3	60,2	36	R3	S2	T1	U3	351,8	268,0	201,0
10	R2	S2	T3	U1	118,7	90,4	67,8	37	R3	S1	T3	U3	368,5	280,8	210,6
11	R2	S1	T2	U1	124,3	94,7	71,0	38	R1	S2	T1	U3	380,4	289,9	217,4
12	R3	S2	T3	U1	128,5	97,9	73,4	39	R1	S1	T3	U3	398,6	303,7	227,7
13	R3	S1	T2	U1	134,6	102,5	76,9	40	R2	S2	T1	U2	413,3	314,9	236,1
14	R1	S2	T3	U1	138,9	105,9	79,4	41	R2	S1	T3	U2	432,9	329,9	247,4
15	R1	S1	T2	U1	145,6	110,9	83,2	42	R3	S2	T1	U2	447,4	340,8	255,6
16	R2	S2	T3	U3	151,6	115,5	86,7	43	R3	S1	T3	U2	468,7	357,1	267,8
17	R2	S1	T2	U3	158,9	121,0	90,8	44	R1	S2	T1	U2	483,8	368,6	276,5
18	R3	S2	T3	U3	164,2	125,1	93,8	45	R1	S1	T3	U2	506,9	386,2	289,6
19	R3	S1	T2	U3	172,0	131,0	98,3	46	R2	S1	T1	U1	570,9	435,0	326,2
20	R1	S2	T3	U3	177,5	135,3	101,5	47	R3	S1	T1	U1	618,0	470,9	353,2
21	R1	S1	T2	U3	186,0	141,7	106,3	48	R1	S1	T1	U1	668,4	509,3	381,9
22	R2	S2	T3	U2	192,9	146,9	110,2	49	R2	S1	T1	U3	729,5	555,8	416,8
23	R2	S1	T2	U2	202,0	153,9	115,4	50	R3	S1	T1	U3	789,7	601,7	451,3
24	R3	S2	T3	U2	208,8	159,1	119,3	51	R1	S1	T1	U3	854,1	650,7	488,0
25	R3	S1	T2	U2	218,7	166,6	125,0	52	R2	S1	T1	U2	927,7	706,8	530,1
26	R1	S2	T3	U2	225,8	172,0	129,0	53	R3	S1	T1	U2	1004,3	765,2	573,9
27	R1	S1	T2	U2	236,5	180,2	135,2	54	R1	S1	T1	U2	1086,1	827,5	620,6

SEED RATE CHARTS - 10

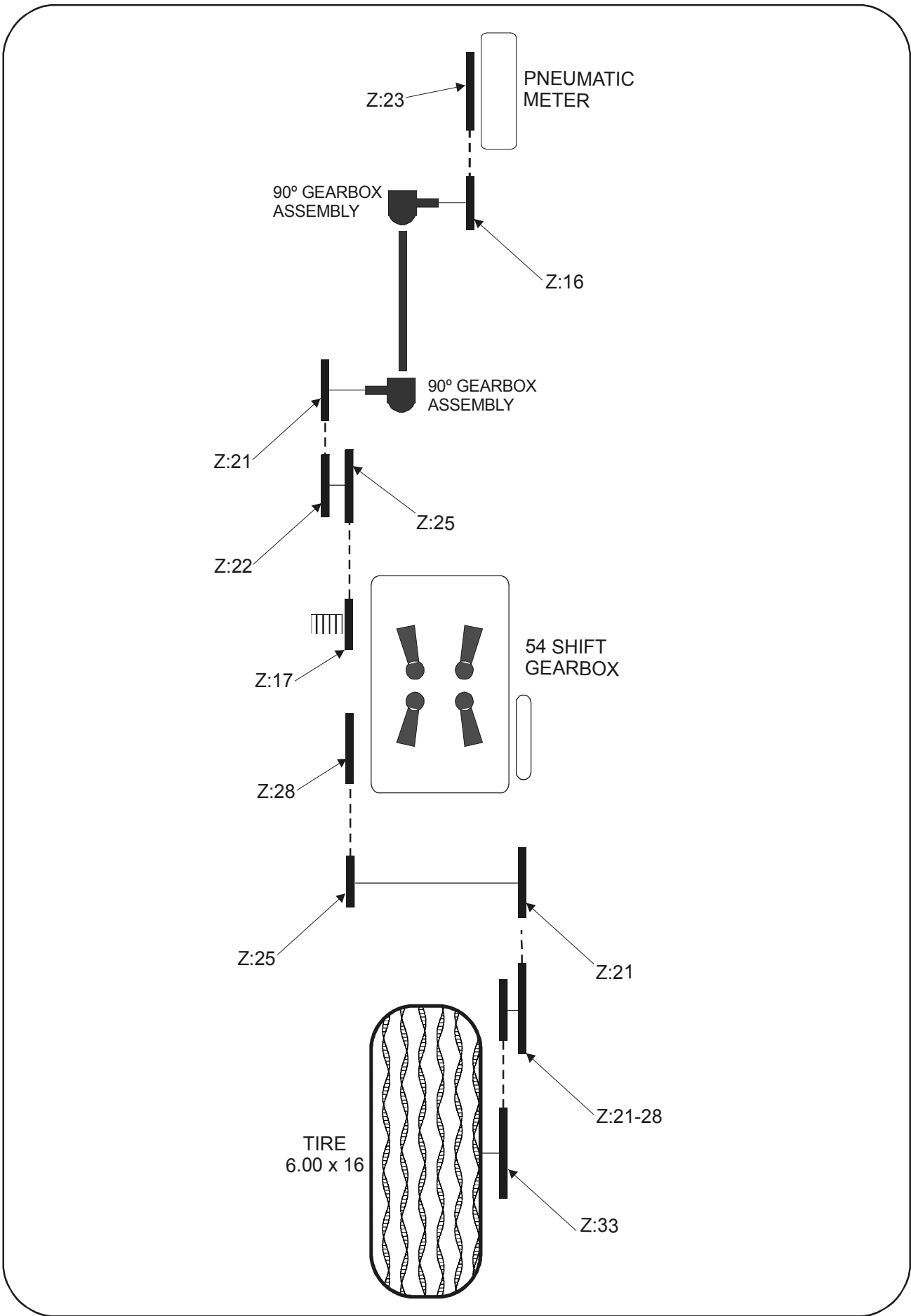
SEED RATE CHARTS WITH CHEVRON TYPE WHEEL METER: Rate adjustment by means of "speed variator".

Variable factors such us: seed quality, specific weight, added products, environment, seeding speed, inflation pressure of tires, 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.

This table is to adjust the row units located on the front toolbar.

SEED RATE CHARTS - APACHE 27000			
Shift	at 200mm Kg by ha	at 262,5mm Kg by ha	at 350mm Kg by ha
1	25,4	13,8	10,4
2	43,2	23,5	17,6
3	69,5	37,8	28,3
4	88,1	47,9	36,0
5	111,8	60,8	45,6
6	127,0	69,1	51,9
7	147,4	80,2	60,2
8	167,7	91,3	68,4
9	194,8	106,0	79,5
10	220,2	119,8	89,9
11	247,6	134,7	101,1
12	268,1	145,9	109,4
13	295,4	160,8	120,6
14	317,6	172,8	129,6
15	347,5	189,1	141,8
16	368,0	200,3	150,2
Shift	at 200mm Kg by ha	at 262,5mm Kg by ha	at 350mm Kg by ha
17	283,0	215,6	161,7
18	297,0	226,3	169,7
19	318,3	242,5	181,9
20	332,4	253,2	189,9
21	351,9	268,1	201,1
22	365,3	278,3	208,7
23	383,0	291,8	218,8
24	402,5	306,7	230,0
25	420,8	320,6	240,5
26	436,7	332,7	249,5
27	458,6	349,4	262,1
28	479,3	365,2	273,9
29	494,6	376,8	282,6
30	510,4	388,9	291,7
31	534,2	407,0	305,3
32	550,1	419,1	314,3

Transmission for pneumatic meter and 54 shift gearbox:



SEED RATE CHARTS WITH PNEUMATIC METER: Rate adjustment by means of "54 shift gearbox"

Variable factors such us: seed quality, specific weight, added products, environment, seeding speed, inflation pressure of tires, 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.

SEED RATE CHARTS - APACHE 27000

Shift	HANDLE POSITION				Seed by m	Seed by ha at 400 mm	Seed by ha at 525 mm	Seed by ha at 700 mm
	R2	S2	T2	U1				
1	R2	S2	T2	U1	0,87	21772	16588	12441
2	R3	S2	T2	U1	0,94	23569	17958	13468
3	R1	S2	T2	U1	1,02	25490	19421	14566
4	R2	S2	T2	U3	1,11	27820	21196	15897
5	R3	S2	T2	U3	1,20	30116	22946	17209
6	R1	S2	T2	U3	1,30	32571	24816	18612
7	R2	S2	T2	U2	1,42	35380	26956	20217
8	R3	S2	T2	U2	1,53	38300	29181	21886
9	R1	S2	T2	U2	1,66	41422	31559	23670
10	R2	S2	T3	U1	1,87	46655	35546	26660
11	R2	S1	T2	U1	1,96	48876	37239	27929
12	R3	S2	T3	U1	2,02	50506	38480	28860
13	R3	S1	T2	U1	2,12	52911	40313	30235
14	R1	S2	T3	U1	2,18	54622	41617	31213
15	R1	S1	T2	U1	2,29	57223	43599	32699
16	R2	S2	T3	U3	2,38	59614	45420	34065
17	R2	S1	T2	U3	2,50	62453	47583	35688
18	R3	S2	T3	U3	2,58	64535	49169	36877
19	R3	S1	T2	U3	2,70	67608	51511	38633
20	R1	S2	T3	U3	2,79	69795	53177	39883
21	R1	S1	T2	U3	2,92	73118	55709	41782
22	R2	S2	T3	U2	3,03	75814	57763	43322
23	R2	S1	T2	U2	3,18	79424	60514	45385
24	R3	S2	T3	U2	3,28	82072	62531	46898
25	R3	S1	T2	U2	3,44	85980	65508	49131
26	R1	S2	T3	U2	3,55	88761	67627	50720
27	R1	S1	T2	U2	3,72	92988	70848	53136

CORN - 24 CELL

Shift	HANDLE POSITION				Seed by m	Seed by ha at 400 mm	Seed by ha at 525 mm	Seed by ha at 700 mm
	R2	S2	T1	U1				
28	R2	S2	T1	U1	4,00	99974	76171	57128
29	R2	S1	T3	U1	4,19	104735	79798	59849
30	R3	S2	T1	U1	4,33	108226	82458	61844
31	R3	S1	T3	U1	4,54	113380	86385	64789
32	R1	S2	T1	U1	4,68	117047	89179	66884
33	R1	S1	T3	U1	4,90	122621	93425	70069
34	R2	S2	T1	U3	5,11	127745	97330	72997
35	R2	S1	T3	U3	5,35	133828	101964	76473
36	R3	S2	T1	U3	5,53	138289	105363	79022
37	R3	S1	T3	U3	5,79	144874	110380	82785
38	R1	S2	T1	U3	5,98	149560	113951	85463
39	R1	S1	T3	U3	6,27	156682	119377	89533
40	R2	S2	T1	U2	6,50	162458	123778	92833
41	R2	S1	T3	U2	6,81	170195	129672	97254
42	R3	S2	T1	U2	7,03	175868	133994	100496
43	R3	S1	T3	U2	7,37	184242	140375	105281
44	R1	S2	T1	U2	7,61	190202	144916	108687
45	R1	S1	T3	U2	7,97	199259	151816	113862
46	R2	S1	T1	U1	8,98	224432	170996	128247
47	R3	S1	T1	U1	9,72	242957	185110	138833
48	R1	S1	T1	U1	10,51	262759	200197	150148
49	R2	S1	T1	U3	11,47	286775	218495	163871
50	R3	S1	T1	U3	12,42	310445	236530	177397
51	R1	S1	T1	U3	13,43	335748	255808	191856
52	R2	S1	T1	U2	14,59	364703	277869	208402
53	R3	S1	T1	U2	15,79	394805	300804	225603
54	R1	S1	T1	U2	17,08	426984	325321	243991

SEED RATE CHARTS WITH PNEUMATIC METER: Rate adjustment by means of "54 shift gearbox"

Variable factors such us: seed quality, specific weight, added products, environment, seeding speed, inflation pressure of tires, 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.

SEED RATE CHARTS - APACHE 27000

SEED RATE CHARTS - APACHE 27000									SORGHUM - 96 CELL								
Shift	HANDLE POSITION				Seed	Seed by ha	Seed by ha	Seed by ha	Shift	HANDLE POSITION				Seed	Seed by ha	Seed by ha	Seed by ha
					by m	at 400 mm	at 525 mm	at 700 mm					by m	at 400 mm	at 525 mm	at 700 mm	
1	R2	S2	T2	U1	3,48	87089	66353	49765	28	R2	S2	T1	U1	16,00	399898	304684	228513
2	R3	S2	T2	U1	3,77	94277	71830	53873	29	R2	S1	T3	U1	16,76	418940	319193	239395
3	R1	S2	T2	U1	4,08	101961	77685	58264	30	R3	S2	T1	U1	17,32	432905	329833	247374
4	R2	S2	T2	U3	4,45	111280	84785	63589	31	R3	S1	T3	U1	18,14	453520	345539	259154
5	R3	S2	T2	U3	4,82	120465	91783	68837	32	R1	S2	T1	U1	18,73	468189	356715	267537
6	R1	S2	T2	U3	5,21	130284	99264	74448	33	R1	S1	T3	U1	19,62	490484	373702	280276
7	R2	S2	T2	U2	5,66	141519	107824	80868	34	R2	S2	T1	U3	20,44	510980	389318	291989
8	R3	S2	T2	U2	6,13	153200	116724	87543	35	R2	S1	T3	U3	21,41	535313	407857	305893
9	R1	S2	T2	U2	6,63	165687	126238	94678	36	R3	S2	T1	U3	22,13	553157	421453	316089
10	R2	S2	T3	U1	7,46	186619	142186	106639	37	R3	S1	T3	U3	23,18	579497	441522	331141
11	R2	S1	T2	U1	7,82	195506	148957	111717	38	R1	S2	T1	U3	23,93	598241	455803	341852
12	R3	S2	T3	U1	8,08	202022	153922	115441	39	R1	S1	T3	U3	25,07	626729	477508	358131
13	R3	S1	T2	U1	8,47	211643	161251	120939	40	R2	S2	T1	U2	25,99	649834	495111	371334
14	R1	S2	T3	U1	8,74	218488	166467	124850	41	R2	S1	T3	U2	27,23	680778	518688	389016
15	R1	S1	T2	U1	9,16	228892	174394	130796	42	R3	S2	T1	U2	28,14	703471	535978	401983
16	R2	S2	T3	U3	9,54	238458	181682	136261	43	R3	S1	T3	U2	29,48	736970	561501	421125
17	R2	S1	T2	U3	9,99	249813	190333	142750	44	R1	S2	T1	U2	30,43	760807	579663	434747
18	R3	S2	T3	U3	10,33	258140	196678	147508	45	R1	S1	T3	U2	31,88	797036	607266	455449
19	R3	S1	T2	U3	10,82	270432	206044	154533	46	R2	S1	T1	U1	35,91	897730	683984	512988
20	R1	S2	T3	U3	11,17	279179	212708	159531	47	R3	S1	T1	U1	38,87	971828	740440	555330
21	R1	S1	T2	U3	11,70	292474	222837	167128	48	R1	S1	T1	U1	42,04	1051036	800790	600592
22	R2	S2	T3	U2	12,13	303256	231052	173289	49	R2	S1	T1	U3	45,88	1147099	873980	655485
23	R2	S1	T2	U2	12,71	317697	242055	181541	50	R3	S1	T1	U3	49,67	1241780	946118	709589
24	R3	S2	T3	U2	13,13	328286	250123	187592	51	R1	S1	T1	U3	53,72	1342991	1023231	767423
25	R3	S1	T2	U2	13,76	343919	262034	196525	52	R2	S1	T1	U2	58,35	1458811	1111475	833606
26	R1	S2	T3	U2	14,20	355043	270509	202882	53	R3	S1	T1	U2	63,17	1579220	1203216	902412
27	R1	S1	T2	U2	14,88	371950	283391	212543	54	R1	S1	T1	U2	68,32	1707934	1301283	975962

SEED RATE CHARTS WITH PNEUMATIC METER: Rate adjustment by means of "54 shift gearbox"

Variable factors such us: seed quality, specific weight, added products, environment, seeding speed, inflation pressure of tires, 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.

SEED RATE CHARTS - APACHE 27000

SEED RATE CHARTS - APACHE 27000									SOYBEAN - 72 CELL								
Shift	HANDLE POSITION				Seed	Seed by ha	Seed by ha	Seed by ha	Shift	HANDLE POSITION				Seed	Seed by ha	Seed by ha	Seed by ha
					by m	at 400 mm	at 525 mm	at 700 mm						by m	at 400 mm	at 525 mm	at 700 mm
1	R2	S2	T2	U1	2,61	65317	49765	37324	28	R2	S2	T1	U1	12,00	299923	228513	171385
2	R3	S2	T2	U1	2,83	70708	53873	40404	29	R2	S1	T3	U1	12,57	314205	239395	179546
3	R1	S2	T2	U1	3,06	76471	58264	43698	30	R3	S2	T1	U1	12,99	324679	247374	185531
4	R2	S2	T2	U3	3,34	83460	63589	47692	31	R3	S1	T3	U1	13,61	340140	259154	194366
5	R3	S2	T2	U3	3,61	90349	68837	51628	32	R1	S2	T1	U1	14,05	351142	267537	200652
6	R1	S2	T2	U3	3,91	97713	74448	55836	33	R1	S1	T3	U1	14,71	367863	280276	210207
7	R2	S2	T2	U2	4,25	106140	80868	60651	34	R2	S2	T1	U3	15,33	383235	291989	218992
8	R3	S2	T2	U2	4,60	114900	87543	65657	35	R2	S1	T3	U3	16,06	401485	305893	229420
9	R1	S2	T2	U2	4,97	124265	94678	71009	36	R3	S2	T1	U3	16,59	414867	316089	237067
10	R2	S2	T3	U1	5,60	139964	106639	79980	37	R3	S1	T3	U3	17,38	434623	331141	248356
11	R2	S1	T2	U1	5,87	146629	111717	83788	38	R1	S2	T1	U3	17,95	448681	341852	256389
12	R3	S2	T3	U1	6,06	151517	115441	86581	39	R1	S1	T3	U3	18,80	470047	358131	268598
13	R3	S1	T2	U1	6,35	158732	120939	90704	40	R2	S2	T1	U2	19,50	487375	371334	278500
14	R1	S2	T3	U1	6,55	163866	124850	93638	41	R2	S1	T3	U2	20,42	510584	389016	291762
15	R1	S1	T2	U1	6,87	171669	130796	98097	42	R3	S2	T1	U2	21,10	527603	401983	301488
16	R2	S2	T3	U3	7,15	178843	136261	102196	43	R3	S1	T3	U2	22,11	552727	421125	315844
17	R2	S1	T2	U3	7,49	187359	142750	107063	44	R1	S2	T1	U2	22,82	570605	434747	326060
18	R3	S2	T3	U3	7,74	193605	147508	110631	45	R1	S1	T3	U2	23,91	597777	455449	341587
19	R3	S1	T2	U3	8,11	202824	154533	115899	46	R2	S1	T1	U1	26,93	673297	512988	384741
20	R1	S2	T3	U3	8,38	209385	159531	119648	47	R3	S1	T1	U1	29,15	728871	555330	416498
21	R1	S1	T2	U3	8,77	219355	167128	125346	48	R1	S1	T1	U1	31,53	788277	600592	450444
22	R2	S2	T3	U2	9,10	227442	173289	129967	49	R2	S1	T1	U3	34,41	860324	655485	491614
23	R2	S1	T2	U2	9,53	238272	181541	136156	50	R3	S1	T1	U3	37,25	931335	709589	532191
24	R3	S2	T3	U2	9,85	246215	187592	140694	51	R1	S1	T1	U3	40,29	1007243	767423	575568
25	R3	S1	T2	U2	10,32	257939	196525	147394	52	R2	S1	T1	U2	43,76	1094108	833606	625205
26	R1	S2	T3	U2	10,65	266282	202882	152161	53	R3	S1	T1	U2	47,38	1184415	902412	676809
27	R1	S1	T2	U2	11,16	278963	212543	159407	54	R1	S1	T1	U2	51,24	1280951	975962	731972

SEED RATE CHARTS WITH PNEUMATIC METER: Rate adjustment by means of "54 shift gearbox"

Variable factors such us: seed quality, specific weight, added products, environment, seeding speed, inflation pressure of tires, 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.

SEED RATE CHARTS - APACHE 27000

SEED RATE CHARTS - APACHE 27000									SUNFLOWER - 24 CELL								
Shift	HANDLE POSITION				Seed	Seed by ha	Seed by ha	Seed by ha	Shift	HANDLE POSITION				Seed	Seed by ha	Seed by ha	Seed by ha
					by m	at 400 mm	at 525 mm	at 700 mm						by m	at 400 mm	at 525 mm	at 700 mm
1	R2	S2	T2	U1	0,87	21772	16588	12441	28	R2	S2	T1	U1	4,00	99974	76171	57128
2	R3	S2	T2	U1	0,94	23569	17958	13468	29	R2	S1	T3	U1	4,19	104735	79798	59849
3	R1	S2	T2	U1	1,02	25490	19421	14566	30	R3	S2	T1	U1	4,33	108226	82458	61844
4	R2	S2	T2	U3	1,11	27820	21196	15897	31	R3	S1	T3	U1	4,54	113380	86385	64789
5	R3	S2	T2	U3	1,20	30116	22946	17209	32	R1	S2	T1	U1	4,68	117047	89179	66884
6	R1	S2	T2	U3	1,30	32571	24816	18612	33	R1	S1	T3	U1	4,90	122621	93425	70069
7	R2	S2	T2	U2	1,42	35380	26956	20217	34	R2	S2	T1	U3	5,11	127745	97330	72997
8	R3	S2	T2	U2	1,53	38300	29181	21886	35	R2	S1	T3	U3	5,35	133828	101964	76473
9	R1	S2	T2	U2	1,66	41422	31559	23670	36	R3	S2	T1	U3	5,53	138289	105363	79022
10	R2	S2	T3	U1	1,87	46655	35546	26660	37	R3	S1	T3	U3	5,79	144874	110380	82785
11	R2	S1	T2	U1	1,96	48876	37239	27929	38	R1	S2	T1	U3	5,98	149560	113951	85463
12	R3	S2	T3	U1	2,02	50506	38480	28860	39	R1	S1	T3	U3	6,27	156682	119377	89533
13	R3	S1	T2	U1	2,12	52911	40313	30235	40	R2	S2	T1	U2	6,50	162458	123778	92833
14	R1	S2	T3	U1	2,18	54622	41617	31213	41	R2	S1	T3	U2	6,81	170195	129672	97254
15	R1	S1	T2	U1	2,29	57223	43599	32699	42	R3	S2	T1	U2	7,03	175868	133994	100496
16	R2	S2	T3	U3	2,38	59614	45420	34065	43	R3	S1	T3	U2	7,37	184242	140375	105281
17	R2	S1	T2	U3	2,50	62453	47583	35688	44	R1	S2	T1	U2	7,61	190202	144916	108687
18	R3	S2	T3	U3	2,58	64535	49169	36877	45	R1	S1	T3	U2	7,97	199259	151816	113862
19	R3	S1	T2	U3	2,70	67608	51511	38633	46	R2	S1	T1	U1	8,98	224432	170996	128247
20	R1	S2	T3	U3	2,79	69795	53177	39883	47	R3	S1	T1	U1	9,72	242957	185110	138833
21	R1	S1	T2	U3	2,92	73118	55709	41782	48	R1	S1	T1	U1	10,51	262759	200197	150148
22	R2	S2	T3	U2	3,03	75814	57763	43322	49	R2	S1	T1	U3	11,47	286775	218495	163871
23	R2	S1	T2	U2	3,18	79424	60514	45385	50	R3	S1	T1	U3	12,42	310445	236530	177397
24	R3	S2	T3	U2	3,28	82072	62531	46898	51	R1	S1	T1	U3	13,43	335748	255808	191856
25	R3	S1	T2	U2	3,44	85980	65508	49131	52	R2	S1	T1	U2	14,59	364703	277869	208402
26	R1	S2	T3	U2	3,55	88761	67627	50720	53	R3	S1	T1	U2	15,79	394805	300804	225603
27	R1	S1	T2	U2	3,72	92988	70848	53136	54	R1	S1	T1	U2	17,08	426984	325321	243991

SEED RATE CHARTS WITH PNEUMATIC METER: Rate adjustment by means of "54 shift gearbox"

Variable factors such us: seed quality, specific weight, added products, environment, seeding speed, inflation pressure of tires, 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.

SEED RATE CHARTS - APACHE 27000

SEED RATE CHARTS - APACHE 27000									BEAN - 48 CELL								
Shift	HANDLE POSITION				Seed	Seed by ha	Seed by ha	Seed by ha	Shift	HANDLE POSITION				Seed	Seed by ha	Seed by ha	Seed by ha
					by m	at 400 mm	at 525 mm	at 700 mm					by m	at 400 mm	at 525 mm	at 700 mm	
1	R2	S2	T2	U1	1,74	43544	33177	24883	28	R2	S2	T1	U1	8,00	199949	152342	114256
2	R3	S2	T2	U1	1,89	47139	35915	26936	29	R2	S1	T3	U1	8,38	209470	159596	119697
3	R1	S2	T2	U1	2,04	50981	38842	29132	30	R3	S2	T1	U1	8,66	216453	164916	123687
4	R2	S2	T2	U3	2,23	55640	42392	31794	31	R3	S1	T3	U1	9,07	226760	172769	129577
5	R3	S2	T2	U3	2,41	60233	45892	34419	32	R1	S2	T1	U1	9,36	234094	178358	133768
6	R1	S2	T2	U3	2,61	65142	49632	37224	33	R1	S1	T3	U1	9,81	245242	186851	140138
7	R2	S2	T2	U2	2,83	70760	53912	40434	34	R2	S2	T1	U3	10,22	255490	194659	145994
8	R3	S2	T2	U2	3,06	76600	58362	43772	35	R2	S1	T3	U3	10,71	267656	203929	152947
9	R1	S2	T2	U2	3,31	82843	63119	47339	36	R3	S2	T1	U3	11,06	276578	210726	158045
10	R2	S2	T3	U1	3,73	93309	71093	53320	37	R3	S1	T3	U3	11,59	289749	220761	165571
11	R2	S1	T2	U1	3,91	97753	74478	55859	38	R1	S2	T1	U3	11,96	299121	227902	170926
12	R3	S2	T3	U1	4,04	101011	76961	57721	39	R1	S1	T3	U3	12,53	313365	238754	179065
13	R3	S1	T2	U1	4,23	105821	80626	60469	40	R2	S2	T1	U2	13,00	324917	247556	185667
14	R1	S2	T3	U1	4,37	109244	83234	62425	41	R2	S1	T3	U2	13,62	340389	259344	194508
15	R1	S1	T2	U1	4,58	114446	87197	65398	42	R3	S2	T1	U2	14,07	351735	267989	200992
16	R2	S2	T3	U3	4,77	119229	90841	68131	43	R3	S1	T3	U2	14,74	368485	280750	210563
17	R2	S1	T2	U3	5,00	124906	95167	71375	44	R1	S2	T1	U2	15,22	380404	289831	217373
18	R3	S2	T3	U3	5,16	129070	98339	73754	45	R1	S1	T3	U2	15,94	398518	303633	227725
19	R3	S1	T2	U3	5,41	135216	103022	77266	46	R2	S1	T1	U1	17,95	448865	341992	256494
20	R1	S2	T3	U3	5,58	139590	106354	79766	47	R3	S1	T1	U1	19,44	485914	370220	277665
21	R1	S1	T2	U3	5,85	146237	111419	83564	48	R1	S1	T1	U1	21,02	525518	400395	300296
22	R2	S2	T3	U2	6,07	151628	115526	86645	49	R2	S1	T1	U3	22,94	573549	436990	327743
23	R2	S1	T2	U2	6,35	158848	121027	90770	50	R3	S1	T1	U3	24,84	620890	473059	354794
24	R3	S2	T3	U2	6,57	164143	125061	93796	51	R1	S1	T1	U3	26,86	671496	511616	383712
25	R3	S1	T2	U2	6,88	171960	131017	98263	52	R2	S1	T1	U2	29,18	729405	555737	416803
26	R1	S2	T3	U2	7,10	177522	135255	101441	53	R3	S1	T1	U2	31,58	789610	601608	451206
27	R1	S1	T2	U2	7,44	185975	141695	106271	54	R1	S1	T1	U2	34,16	853967	650642	487981

SEED RATE CHARTS WITH PNEUMATIC METER: Rate adjustment by means of "54 shift gearbox"

Variable factors such us: seed quality, specific weight, added products, environment, seeding speed, inflation pressure of tires, 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.

SEED RATE CHARTS - APACHE 27000

Shift	HANDLE POSITION				Seed	Seed by ha	Seed by ha	Seed by ha
					by m	at 400 mm	at 525 mm	at 700 mm
1	R2	S2	T2	U1	2,61	65317	49765	37324
2	R3	S2	T2	U1	2,83	70708	53873	40404
3	R1	S2	T2	U1	3,06	76471	58264	43698
4	R2	S2	T2	U3	3,34	83460	63589	47692
5	R3	S2	T2	U3	3,61	90349	68837	51628
6	R1	S2	T2	U3	3,91	97713	74448	55836
7	R2	S2	T2	U2	4,25	106140	80868	60651
8	R3	S2	T2	U2	4,60	114900	87543	65657
9	R1	S2	T2	U2	4,97	124265	94678	71009
10	R2	S2	T3	U1	5,60	139964	106639	79980
11	R2	S1	T2	U1	5,87	146629	111717	83788
12	R3	S2	T3	U1	6,06	151517	115441	86581
13	R3	S1	T2	U1	6,35	158732	120939	90704
14	R1	S2	T3	U1	6,55	163866	124850	93638
15	R1	S1	T2	U1	6,87	171669	130796	98097
16	R2	S2	T3	U3	7,15	178843	136261	102196
17	R2	S1	T2	U3	7,49	187359	142750	107063
18	R3	S2	T3	U3	7,74	193605	147508	110631
19	R3	S1	T2	U3	8,11	202824	154533	115899
20	R1	S2	T3	U3	8,38	209385	159531	119648
21	R1	S1	T2	U3	8,77	219355	167128	125346
22	R2	S2	T3	U2	9,10	227442	173289	129967
23	R2	S1	T2	U2	9,53	238272	181541	136156
24	R3	S2	T3	U2	9,85	246215	187592	140694
25	R3	S1	T2	U2	10,32	257939	196525	147394
26	R1	S2	T3	U2	10,65	266282	202882	152161
27	R1	S1	T2	U2	11,16	278963	212543	159407

SAFFLOWER - 72 CELL

Shift	HANDLE POSITION				Seed	Seed by ha	Seed by ha	Seed by ha
					by m	at 400 mm	at 525 mm	at 700 mm
28	R2	S2	T1	U1	12,00	299923	228513	171385
29	R2	S1	T3	U1	12,57	314205	239395	179546
30	R3	S2	T1	U1	12,99	324679	247374	185531
31	R3	S1	T3	U1	13,61	340140	259154	194366
32	R1	S2	T1	U1	14,05	351142	267537	200652
33	R1	S1	T3	U1	14,71	367863	280276	210207
34	R2	S2	T1	U3	15,33	383235	291989	218992
35	R2	S1	T3	U3	16,06	401485	305893	229420
36	R3	S2	T1	U3	16,59	414867	316089	237067
37	R3	S1	T3	U3	17,38	434623	331141	248356
38	R1	S2	T1	U3	17,95	448681	341852	256389
39	R1	S1	T3	U3	18,80	470047	358131	268598
40	R2	S2	T1	U2	19,50	487375	371334	278500
41	R2	S1	T3	U2	20,42	510584	389016	291762
42	R3	S2	T1	U2	21,10	527603	401983	301488
43	R3	S1	T3	U2	22,11	552727	421125	315844
44	R1	S2	T1	U2	22,82	570605	434747	326060
45	R1	S1	T3	U2	23,91	597777	455449	341587
46	R2	S1	T1	U1	26,93	673297	512988	384741
47	R3	S1	T1	U1	29,15	728871	555330	416498
48	R1	S1	T1	U1	31,53	788277	600592	450444
49	R2	S1	T1	U3	34,41	860324	655485	491614
50	R3	S1	T1	U3	37,25	931335	709589	532191
51	R1	S1	T1	U3	40,29	1007243	767423	575568
52	R2	S1	T1	U2	43,76	1094108	833606	625205
53	R3	S1	T1	U2	47,38	1184415	902412	676809
54	R1	S1	T1	U2	51,24	1280951	975962	731972

SEED RATE CHARTS WITH PNEUMATIC METER: Rate adjustment by means of "54 shift gearbox"

Variable factors such us: seed quality, specific weight, added products, environment, seeding speed, inflation pressure of tires, 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.

SEED RATE CHARTS - APACHE 27000

SEED RATE CHARTS - APACHE 27000									PEANUT - 48 CELL								
Shift	HANDLE POSITION				Seed	Seed by ha	Seed by ha	Seed by ha	Shift	HANDLE POSITION				Seed	Seed by ha	Seed by ha	Seed by ha
					by m	at 400 mm	at 525 mm	at 700 mm						by m	at 400 mm	at 525 mm	at 700 mm
1	R2	S2	T2	U1	1,74	43544	33177	24883	28	R2	S2	T1	U1	8,00	199949	152342	114256
2	R3	S2	T2	U1	1,89	47139	35915	26936	29	R2	S1	T3	U1	8,38	209470	159596	119697
3	R1	S2	T2	U1	2,04	50981	38842	29132	30	R3	S2	T1	U1	8,66	216453	164916	123687
4	R2	S2	T2	U3	2,23	55640	42392	31794	31	R3	S1	T3	U1	9,07	226760	172769	129577
5	R3	S2	T2	U3	2,41	60233	45892	34419	32	R1	S2	T1	U1	9,36	234094	178358	133768
6	R1	S2	T2	U3	2,61	65142	49632	37224	33	R1	S1	T3	U1	9,81	245242	186851	140138
7	R2	S2	T2	U2	2,83	70760	53912	40434	34	R2	S2	T1	U3	10,22	255490	194659	145994
8	R3	S2	T2	U2	3,06	76600	58362	43772	35	R2	S1	T3	U3	10,71	267656	203929	152947
9	R1	S2	T2	U2	3,31	82843	63119	47339	36	R3	S2	T1	U3	11,06	276578	210726	158045
10	R2	S2	T3	U1	3,73	93309	71093	53320	37	R3	S1	T3	U3	11,59	289749	220761	165571
11	R2	S1	T2	U1	3,91	97753	74478	55859	38	R1	S2	T1	U3	11,96	299121	227902	170926
12	R3	S2	T3	U1	4,04	101011	76961	57721	39	R1	S1	T3	U3	12,53	313365	238754	179065
13	R3	S1	T2	U1	4,23	105821	80626	60469	40	R2	S2	T1	U2	13,00	324917	247556	185667
14	R1	S2	T3	U1	4,37	109244	83234	62425	41	R2	S1	T3	U2	13,62	340389	259344	194508
15	R1	S1	T2	U1	4,58	114446	87197	65398	42	R3	S2	T1	U2	14,07	351735	267989	200992
16	R2	S2	T3	U3	4,77	119229	90841	68131	43	R3	S1	T3	U2	14,74	368485	280750	210563
17	R2	S1	T2	U3	5,00	124906	95167	71375	44	R1	S2	T1	U2	15,22	380404	289831	217373
18	R3	S2	T3	U3	5,16	129070	98339	73754	45	R1	S1	T3	U2	15,94	398518	303633	227725
19	R3	S1	T2	U3	5,41	135216	103022	77266	46	R2	S1	T1	U1	17,95	448865	341992	256494
20	R1	S2	T3	U3	5,58	139590	106354	79766	47	R3	S1	T1	U1	19,44	485914	370220	277665
21	R1	S1	T2	U3	5,85	146237	111419	83564	48	R1	S1	T1	U1	21,02	525518	400395	300296
22	R2	S2	T3	U2	6,07	151628	115526	86645	49	R2	S1	T1	U3	22,94	573549	436990	327743
23	R2	S1	T2	U2	6,35	158848	121027	90770	50	R3	S1	T1	U3	24,84	620890	473059	354794
24	R3	S2	T3	U2	6,57	164143	125061	93796	51	R1	S1	T1	U3	26,86	671496	511616	383712
25	R3	S1	T2	U2	6,88	171960	131017	98263	52	R2	S1	T1	U2	29,18	729405	555737	416803
26	R1	S2	T3	U2	7,10	177522	135255	101441	53	R3	S1	T1	U2	31,58	789610	601608	451206
27	R1	S1	T2	U2	7,44	185975	141695	106271	54	R1	S1	T1	U2	34,16	853967	650642	487981

SEED RATE CHARTS WITH PNEUMATIC METER: Rate adjustment by means of "54 shift gearbox"

Variable factors such us: seed quality, specific weight, added products, environment, seeding speed, inflation pressure of tires, 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.

SEED RATE CHARTS - APACHE 27000

SEED RATE CHARTS - APACHE 27000									SOYBEAN - 84 CELL								
Shift	HANDLE POSITION				Seed	Seed by ha	Seed by ha	Seed by ha	Shift	HANDLE POSITION				Seed	Seed by ha	Seed by ha	Seed by ha
					by m	at 400 mm	at 525 mm	at 700 mm					by m	at 400 mm	at 525 mm	at 700 mm	
1	R2	S2	T2	U1	3,05	76203	58059	43544	28	R2	S2	T1	U1	14,00	349911	266598	199949
2	R3	S2	T2	U1	3,30	82492	62851	47139	29	R2	S1	T3	U1	14,66	366573	279294	209470
3	R1	S2	T2	U1	3,57	89216	67974	50981	30	R3	S2	T1	U1	15,15	378792	288603	216453
4	R2	S2	T2	U3	3,89	97370	74187	55640	31	R3	S1	T3	U1	15,87	396830	302346	226760
5	R3	S2	T2	U3	4,22	105407	80310	60233	32	R1	S2	T1	U1	16,39	409665	312126	234094
6	R1	S2	T2	U3	4,56	113998	86856	65142	33	R1	S1	T3	U1	17,17	429173	326989	245242
7	R2	S2	T2	U2	4,95	123829	94346	70760	34	R2	S2	T1	U3	17,88	447108	340654	255490
8	R3	S2	T2	U2	5,36	134050	102134	76600	35	R2	S1	T3	U3	18,74	468399	356875	267656
9	R1	S2	T2	U2	5,80	144976	110458	82843	36	R3	S2	T1	U3	19,36	484012	368771	276578
10	R2	S2	T3	U1	6,53	163292	124413	93309	37	R3	S1	T3	U3	20,28	507060	386332	289749
11	R2	S1	T2	U1	6,84	171067	130337	97753	38	R1	S2	T1	U3	20,94	523461	398828	299121
12	R3	S2	T3	U1	7,07	176770	134682	101011	39	R1	S1	T3	U3	21,94	548388	417819	313365
13	R3	S1	T2	U1	7,41	185187	141095	105821	40	R2	S2	T1	U2	22,74	568605	433223	324917
14	R1	S2	T3	U1	7,65	191177	145659	109244	41	R2	S1	T3	U2	23,83	595681	453852	340389
15	R1	S1	T2	U1	8,01	200281	152595	114446	42	R3	S2	T1	U2	24,62	615537	468981	351735
16	R2	S2	T3	U3	8,35	208650	158972	119229	43	R3	S1	T3	U2	25,79	644848	491313	368485
17	R2	S1	T2	U3	8,74	218586	166542	124906	44	R1	S2	T1	U2	26,63	665706	507205	380404
18	R3	S2	T3	U3	9,03	225872	172093	129070	45	R1	S1	T3	U2	27,90	697407	531357	398518
19	R3	S1	T2	U3	9,47	236628	180288	135216	46	R2	S1	T1	U1	31,42	785513	598486	448865
20	R1	S2	T3	U3	9,77	244282	186120	139590	47	R3	S1	T1	U1	34,01	850349	647885	485914
21	R1	S1	T2	U3	10,24	255914	194982	146237	48	R1	S1	T1	U1	36,79	919657	700691	525518
22	R2	S2	T3	U2	10,61	265349	202171	151628	49	R2	S1	T1	U3	40,15	1003712	764733	573549
23	R2	S1	T2	U2	11,12	277984	211798	158848	50	R3	S1	T1	U3	43,46	1086558	827853	620890
24	R3	S2	T3	U2	11,49	287251	218858	164143	51	R1	S1	T1	U3	47,00	1175117	895327	671496
25	R3	S1	T2	U2	12,04	300929	229279	171960	52	R2	S1	T1	U2	51,06	1276459	972540	729405
26	R1	S2	T3	U2	12,43	310663	236696	177522	53	R3	S1	T1	U2	55,27	1381818	1052814	789610
27	R1	S1	T2	U2	13,02	325456	247967	185975	54	R1	S1	T1	U2	59,78	1494443	1138623	853967

SEED RATE CHARTS WITH PNEUMATIC METER: Rate adjustment by means of "54 shift gearbox"

Variable factors such us: seed quality, specific weight, added products, environment, seeding speed, inflation pressure of tires, 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.

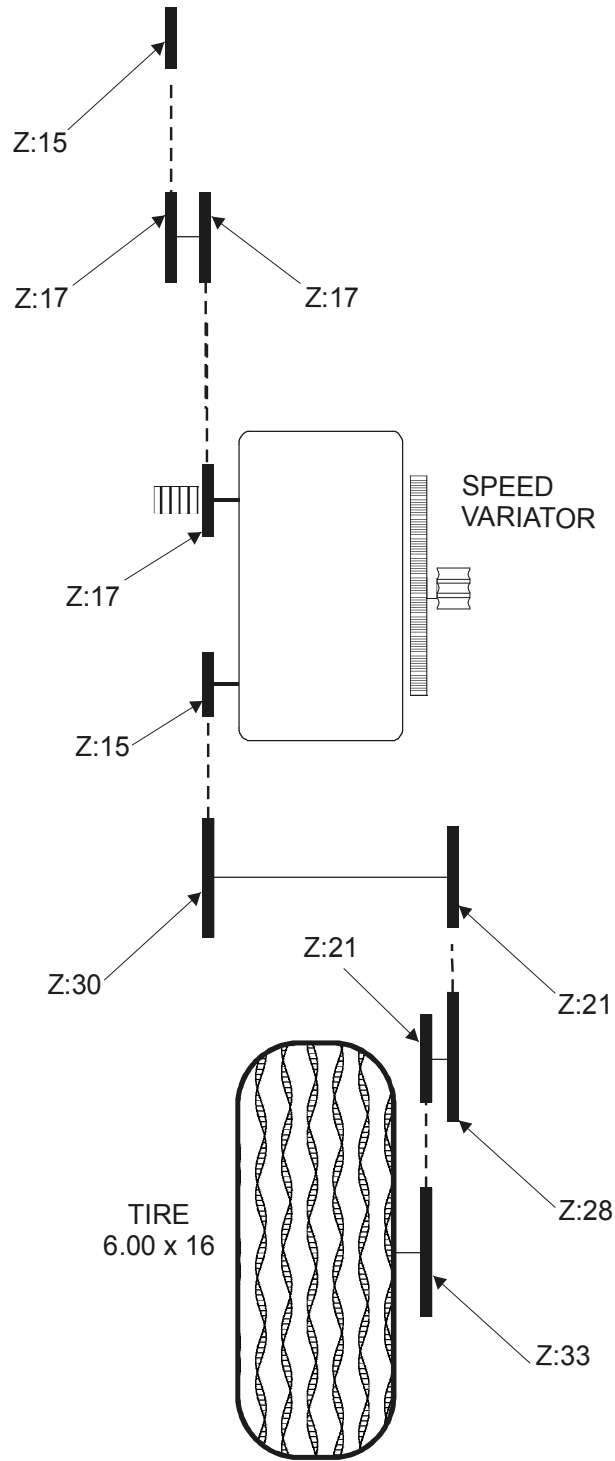
NOTE: This plate is with double row of cells and requires the change of the ejecting wheel.

SEED RATE CHARTS - APACHE 27000

SEED RATE CHARTS - APACHE 27000									SOYBEAN - 144 CELL								
Shift	HANDLE POSITION				Seed	Seed by ha	Seed by ha	Seed by ha	Shift	HANDLE POSITION				Seed	Seed by ha	Seed by ha	Seed by ha
					by m	at 400 mm	at 525 mm	at 700 mm						by m	at 400 mm	at 525 mm	at 700 mm
1	R2	S2	T2	U1	5,23	130633	99530	74648	28	R2	S2	T1	U1	23,99	599847	457026	342769
2	R3	S2	T2	U1	5,66	141416	107745	80809	29	R2	S1	T3	U1	25,14	628411	478789	359092
3	R1	S2	T2	U1	6,12	152942	116527	87395	30	R3	S2	T1	U1	25,97	649358	494749	371062
4	R2	S2	T2	U3	6,68	166920	127177	95383	31	R3	S1	T3	U1	27,21	680280	518308	388731
5	R3	S2	T2	U3	7,23	180698	137675	103256	32	R1	S2	T1	U1	28,09	702283	535073	401305
6	R1	S2	T2	U3	7,82	195426	148896	111672	33	R1	S1	T3	U1	29,43	735726	560553	420415
7	R2	S2	T2	U2	8,49	212279	161736	121302	34	R2	S2	T1	U3	30,66	766471	583978	437983
8	R3	S2	T2	U2	9,19	229800	175086	131315	35	R2	S1	T3	U3	32,12	802969	611786	458840
9	R1	S2	T2	U2	9,94	248530	189356	142017	36	R3	S2	T1	U3	33,19	829735	632179	474134
10	R2	S2	T3	U1	11,20	279928	213279	159959	37	R3	S1	T3	U3	34,77	869246	662283	496712
11	R2	S1	T2	U1	11,73	293258	223435	167576	38	R1	S2	T1	U3	35,89	897362	683705	512778
12	R3	S2	T3	U1	12,12	303034	230883	173162	39	R1	S1	T3	U3	37,60	940094	716262	537196
13	R3	S1	T2	U1	12,70	317464	241877	181408	40	R2	S2	T1	U2	38,99	974751	742667	557000
14	R1	S2	T3	U1	13,11	327732	249701	187276	41	R2	S1	T3	U2	40,85	1021167	778032	583524
15	R1	S1	T2	U1	13,73	343339	261591	196193	42	R3	S2	T1	U2	42,21	1055206	803967	602975
16	R2	S2	T3	U3	14,31	357686	272523	204392	43	R3	S1	T3	U2	44,22	1105454	842251	631688
17	R2	S1	T2	U3	14,99	374719	285500	214125	44	R1	S2	T1	U2	45,65	1141211	869494	652120
18	R3	S2	T3	U3	15,49	387210	295017	221263	45	R1	S1	T3	U2	47,82	1195554	910898	683174
19	R3	S1	T2	U3	16,23	405648	309065	231799	46	R2	S1	T1	U1	53,86	1346594	1025977	769483
20	R1	S2	T3	U3	16,75	418769	319062	239297	47	R3	S1	T1	U1	58,31	1457742	1110661	832995
21	R1	S1	T2	U3	17,55	438710	334256	250692	48	R1	S1	T1	U1	63,06	1576555	1201185	900888
22	R2	S2	T3	U2	18,20	454884	346578	259934	49	R2	S1	T1	U3	68,83	1720648	1310970	983228
23	R2	S1	T2	U2	19,06	476545	363082	272311	50	R3	S1	T1	U3	74,51	1862670	1419177	1064383
24	R3	S2	T3	U2	19,70	492430	375184	281388	51	R1	S1	T1	U3	80,58	2014487	1534847	1151135
25	R3	S1	T2	U2	20,64	515879	393050	294788	52	R2	S1	T1	U2	87,53	2188216	1667212	1250409
26	R1	S2	T3	U2	21,30	532565	405764	304323	53	R3	S1	T1	U2	94,75	2368831	1804823	1353617
27	R1	S1	T2	U2	22,32	557925	425086	318814	54	R1	S1	T1	U2	102,48	2561901	1951925	1463944

SEED RATE CHART - 21

Transmission for fertilizer:



SEED RATE CHARTS - 22

FERTILIZER RATE CHARTS: Rate adjustment by means of "Speed variator"

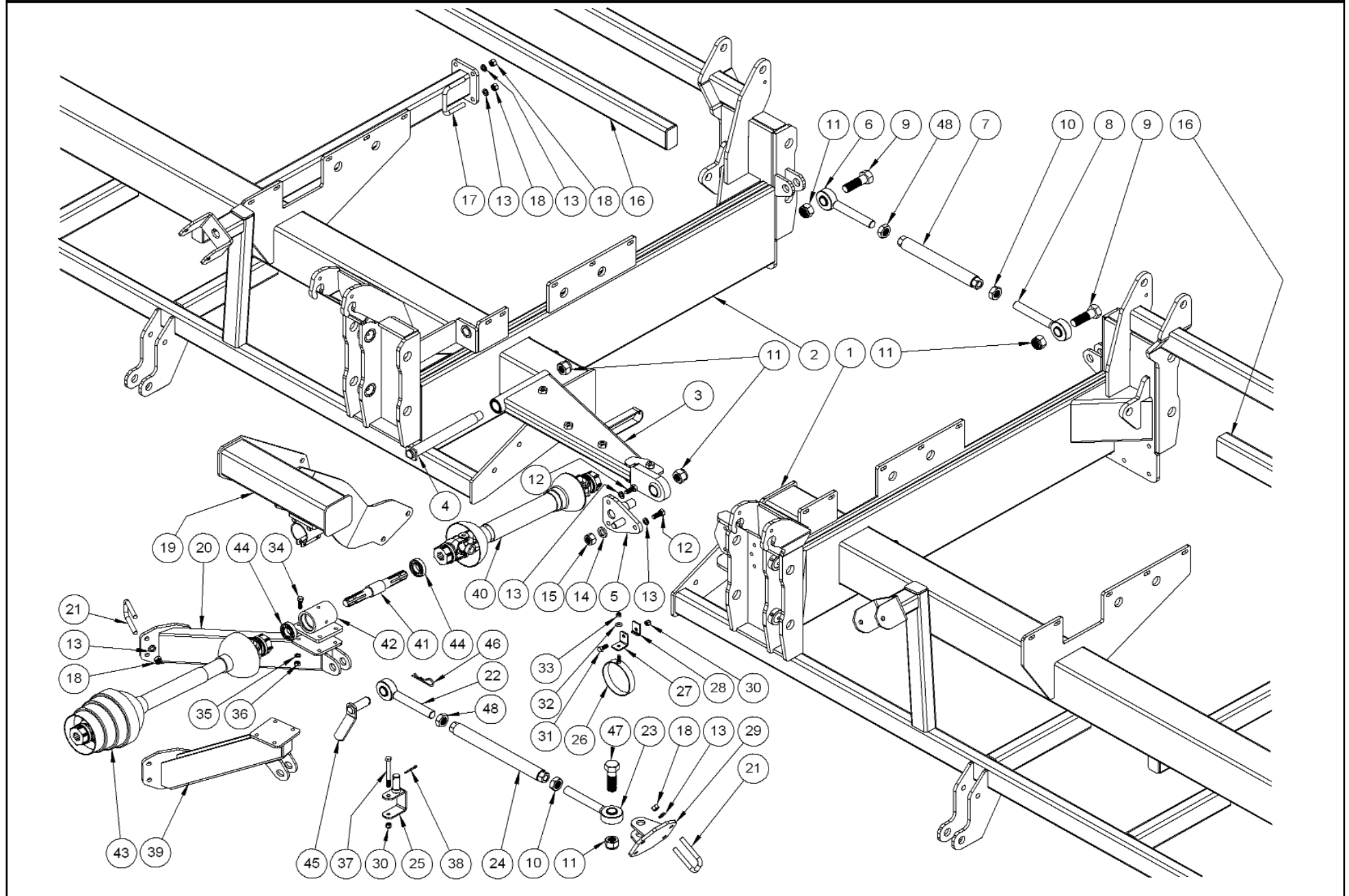
Variable factors such us: seed quality, specific weight, added products, environment, seeding speed, inflation pressure of tires, etc., can alter the real application values from the values shown on the seed/fertilizer charts. Therefore, after the machine is accurately adjusted, it is recommended to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

FERTILIZER RATE CHARTS APACHE 27000

SHIFT	FOSFATO			UREA		
	400mm	525mm	700mm	400mm	525mm	700mm
1	12,9	9,8	7,4	10,3	7,9	5,9
2	21,9	16,7	12,5	17,6	13,4	10,0
3	35,3	26,9	20,2	28,2	21,5	16,1
4	44,8	34,1	25,6	35,8	27,3	20,5
5	56,8	43,3	32,5	45,4	34,6	26,0
6	64,6	49,2	36,9	51,6	39,3	29,5
7	74,9	57,1	42,8	59,9	45,6	34,2
8	85,2	64,9	48,7	68,2	51,9	39,0
9	99,0	75,4	56,6	79,2	60,3	45,3
10	111,9	85,3	63,9	89,5	68,2	51,2
11	125,8	95,9	71,9	100,7	76,7	57,5
12	136,2	103,8	77,8	109,0	83,0	62,3
13	150,1	114,4	85,8	120,1	91,5	68,6
14	161,4	123,0	92,2	129,1	98,4	73,8
15	176,6	134,5	100,9	141,3	107,6	80,7
16	187,0	142,5	106,8	149,6	114,0	85,5
17	201,3	153,4	115,0	161,0	122,7	92,0
18	211,3	161,0	120,7	169,0	128,8	96,6
19	226,5	172,5	129,4	181,2	138,0	103,5
20	236,4	180,1	135,1	189,2	144,1	108,1
21	250,3	190,7	143,0	200,3	152,6	114,4
22	259,9	198,0	148,5	207,9	158,4	118,8
23	272,5	207,6	155,7	218,0	166,1	124,5
24	286,3	218,2	163,6	229,1	174,5	130,9
25	299,3	228,1	171,1	239,5	182,5	136,8
26	310,6	236,7	177,5	248,5	189,3	142,0
27	326,2	248,6	186,4	261,0	198,9	149,1
28	341,0	259,8	194,9	272,8	207,8	155,9
29	351,8	268,1	201,1	281,5	214,5	160,8
30	363,1	276,7	207,5	290,5	221,3	166,0
31	380,0	289,6	217,2	304,0	231,6	173,7
32	391,3	298,2	223,6	313,1	238,5	178,9

**SPARE
PARTS
MANUAL**

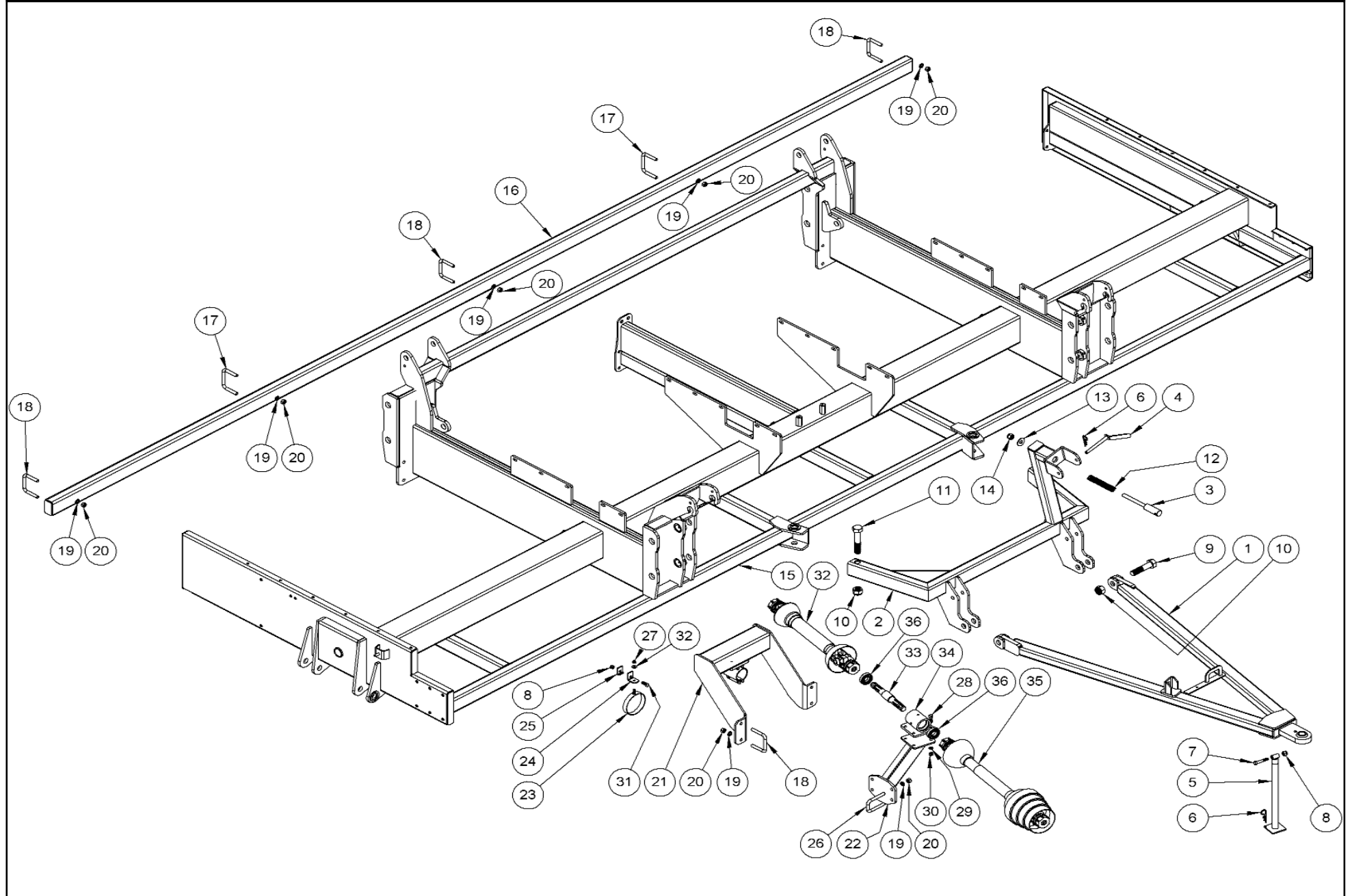
APACHE 27000



FRAMES AND LINKAGES FOR 2 FRAME MACHINE

Item	Code Number	Description	Item	Code Number	Description
1	16.64.020.00	Left frame for 20 rows at 400mm	19(*)	16.64.390.00	Fan supporting bar for 2- frame machine
1	16.64.198.00	Left frame for 20 rows at 525mm	20(*)	16.64.389.00	Cardan shaft joint supporting bar for 2-frame machine at 525mm
1	16.64.357.00	Left frame for 24 rows at 400mm	21(*)	16.64.388.01	U-bolt: anchorage for cardan shaft joint supporting bar
1	16.64.335.00	Left frame for 26 rows at 525mm	22(*)	16.64.445.00	Left adjustment - cardan shaft joint rod support
1	16.64.368.00	Left frame for 28 rows at 400mm	23(*)	16.64.444.00	Right adjustment - cardan shaft joint rod support
2	16.64.015.00	Right frame for 20 rows at 400mm	24(*)	16.64.391.00	Cardan shaft supporting joint rod adjustment for 525mm spacing
2	16.64.191.00	Right frame for 20 rows at 525mm	24(*)	16.64.443.00	Cardan shaft supporting joint rod adjustment for 400mm spacing
2	16.64.354.00	Right frame for 24 rows at 400mm	25(*)	16.64.399.00	Bracket - supporting joint rod lock
2	16.64.333.00	Right frame for 26 rows at 525mm	26(*)	16.64.392.01	Guide ring for fan suction hose
2	16.64.365.00	Right frame for 28 rows at 400mm	27(*)	16.64.393.01	Hose guide ring anchor
3	16.64.016.00	Front link for machines at 400mm spacing	28(*)	16.64.075.01	Platform lock
3	16.64.192.00	Front link for machines at 525mm spacing	29(*)	16.64.394.00	Hitch adjusting rod support
4	16.64.019.00	Front link pivot pin	30(*)	18.37.01.013	Lock nut - 1/2"
5	16.64.017.00	Front link adjustment for machine at 400mm spacing	31(*)	18.03.10.052	Hex head bolt - BSW 1/2" x 1 1/4" double-chrome coated
5	16.64.300.00	Front link adjustment for machine at 525mm spacing	32(*)	18.01.10.004	Flat washer - 3/8" double-chrome coated
6	16.64.007.00	Left adjustment for hitch and rear link	33(*)	18.37.01.011	Lock nut - 3/8"
7	16.64.018.00	Adjustment and rear link for machine at 400mm	34(*)	18.03.10.053	Hex head bolt - BSW 1/2" x 1 1/2" double-chrome coated
7	16.64.195.00	Adjustment and rear link for machine at 525mm	35(*)	18.02.10.006	Lock washer - 1/2" double-chrome coated
8	16.64.006.00	Right adjustment for hitch and rear link	36(*)	18.16.10.006	Hex nut - 1/2" double-chrome coated
9	18.03.05.197	Hex head bolt - BSW G5 1 1/4" x 4 1/2" double-chrome coated	37(*)	18.03.10.063	Hex head bolt - BSW 1/2" x 5" double-chrome coated
10	18.19.10.013	Flat hex nut -BSW 1 1/4" double-chrome coated	38(*)	18.25.01.013	Split Cotter pin - 5 x 60
11	18.37.01.024	Lock nut - BSW 1 1/4"	39(*)	16.64.442.00	Cardan shaft joint supporting bar for 2-frame machine at 400mm
12	18.03.10.075	Hex head bolt - BSW 5/8" x 1 1/2" double-chrome coated	40(*)	15.64.756.10	Cardan shaft K-521w/safety clutch 1.3/8" Z-6 - Splined shaft x1800 for 540 RPM
13	18.02.10.008	Lock washer - 5/8" double-chrome coated			
14	18.02.10.011	Lock washer - 1" double-chrome coated	41(*)	16.64.562.10	
15	18.16.10.011	Hex nut- BSW 1" double-chrome coated	42(*)	16.64.563.10	Bearing housing - linking shaft
16	16.64.042.00	Frame rear beam - 20 rows at 400mm	43(*)	15.64.755.10	Cardan shaft K-521w/CV joint 1.3/8" Z-6 and safety clutch 1.3/8"1-3/8" Z-6 splined shaft x1800 for 540 RPM
16	16.64.196.00	Frame rear beam - 20 rows at 525mm			
16	16.64.356.00	Frame rear beam - 24 rows at 400mm	44(*)	18.33.01.005	Bearing 6207
16	16.64.334.00	Frame rear beam - 26 rows at 525mm	45(*)	16.64.571.01	Lock pin - cardan shafts supporting joint
16	16.64.367.00	Frame rear beam - 28 rows at 400mm	46(*)	18.27.01.008	Retaining pin 5 x 110
17	16.64.056.01	U-bolt - frame anchor	47(*)	18.03.10.195	Hex head bolt - BSW - 1 1/4" x 4" double-chrome coated
18	18.16.10.008	Hex nut - BSW 5/8" double-chrome coated	48	18.19.04.013	Flat hex nut - BSW - left - 1 1/4" double-chrome coated

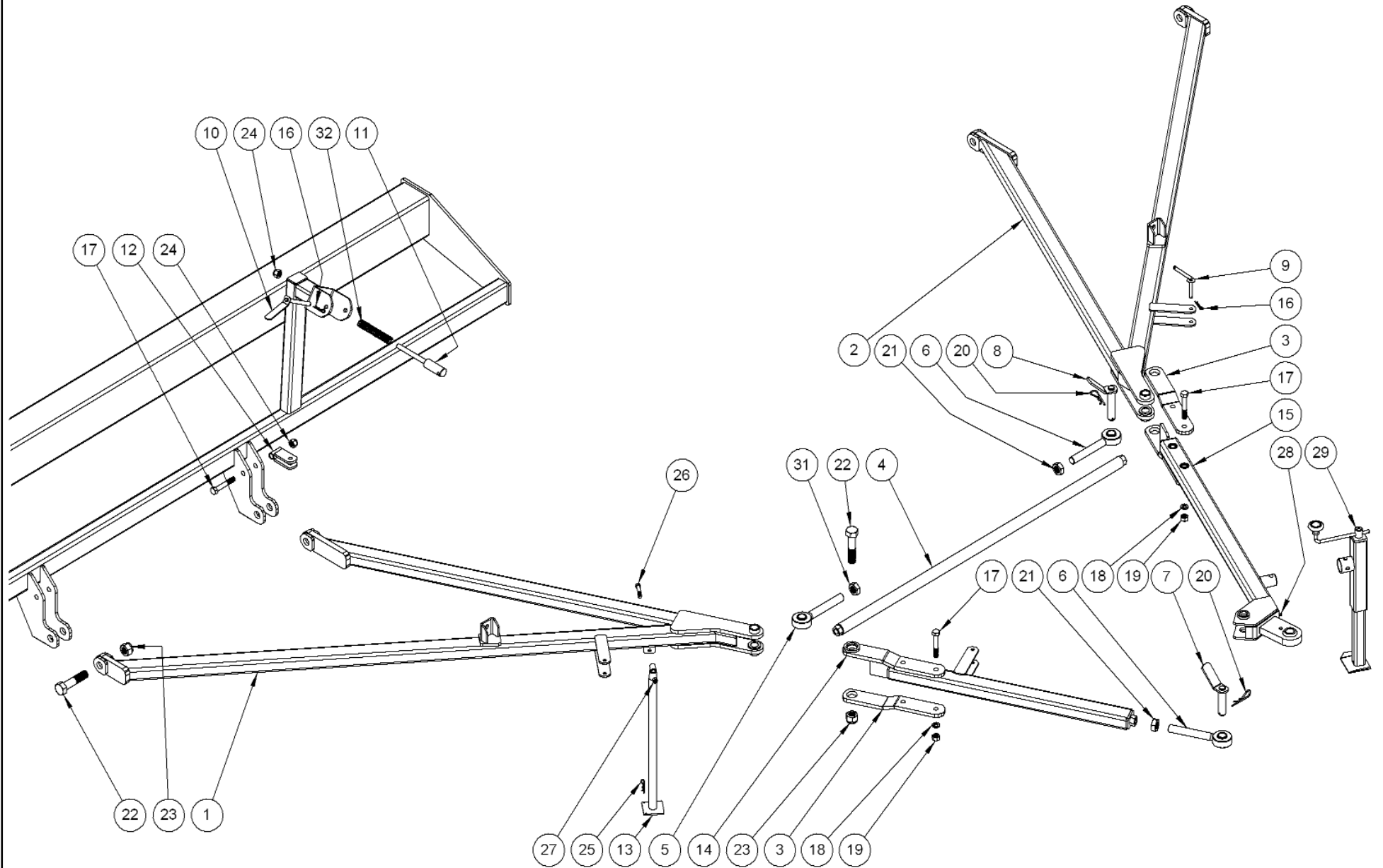
(*) Parts for pneumatic machines



FRAME AND WORKING HITCH FOR 1 FRAME MACHINE

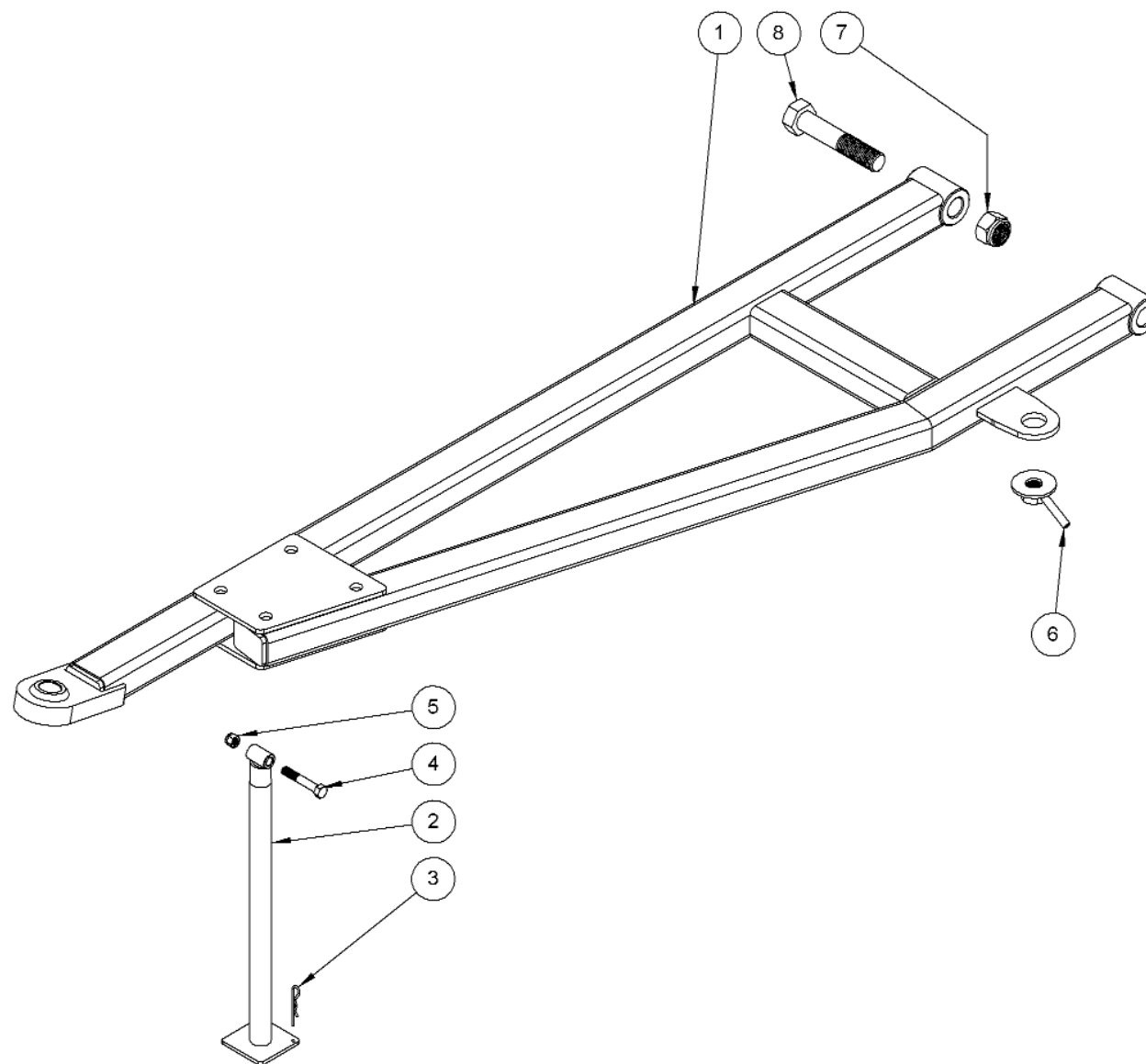
Item	Code Number	Description	Item	Code Number	Description
1	16.64.225.00	Working hitch for 1-frame machine	25	16.64.075.01(*)	Plataform lock
2	16.64.226.00	Support - Working hitch for 1-frame machineb1módulo	26	16.64.388.01(*)	U-bolt:cardan shafts linkage anchorage
3	16.64.167.01	Rod - hitch shock absorber stand	27	18.37.01.011	Lock nut - 3/8"
4	16.64.011.01	Pin -hitch first section lock	28	18.03.10.054	Hex head bolt - BSW 1/2" x 1 3/4" double-chrome coated
5	16.64.320.00	Working hitch stand for 1 frame machine	29	18.02.10.006	Lock washer - 1/2" double-chrome coated
6	18.27.01.012	Retaining pin - 3.5 x 70	30	18.16.10.006	Hex nut - BSW 1/2" double-chrome coated
7	18.03.10.059	Hex head bolt - BSW 1/2" x 3" double-chrome coated	31	18.03.10.052	Hex head bolt - BSW 1/2" x 1 1/4" double-chrome coa
8	18.37.01.013	Lock nut - 1/2"	32	15.64.756.10(*)	Cardan shaft K-521w/CV joint 1.3/8" Z-6 and safety clutch 1.3/8"1-3/8" Z-6 splined shaft x1800 for 540 RPM
9	16.64.591.01	Hex head bolt - BSW G5 - 1 1/4" x 5" 1/2"-double-chrome			
10	18.37.01.024	Lock nut - 1 1/4"	33	16.64.562.10(*)	Shaft - cardan shafts linkage
11	16.64.590.01	Hex head bolt - BSW G5 - 1 1/4" x 6 1/2"- double-chrome	34	16.64.563.10(*)	Bearing housing - linking shaft
12	18.38.01.271	Spring - hitch shock absorber stand	35	15.64.755.10(*)	Cardan shaft K-521w/CV joint and safety clutch 1.3/8" Z-6 splined shaft x1800 for 540 RPM
13	18.01.10.010	Flat washer - 3/4" double-chrome coated			
14	18.37.01.023	Lock nut - 3/4"	36	18.33.01.005(*)	Bearing 6207
15	16.64.227.00	Frame for 16 rows at 400mm			
15	16.64.251.00	Frame for 16 rows at 525mm			
15	16.64.425.00	Frame for 10 rows at 400mm			
15	16.64.433.00	Frame for 10 rows at 525mm			
15	16.64.434.00	Frame for 14 rows at 525mm			
16	16.64.247.00	Frame rear beam 16 rows at 400mm			
16	16.64.254.00	Frame rear beam 16 rows at 525mm			
16	16.64.427.00	Frame rear beam 10 rows at 400mm			
16	16.64.467.00	Frame rear beam 10 rows at 525mm			
16	16.64.483.00	Frame rear beam 14 rows at 525mm			
17	16.64.179.01	U-bolt - rear parallel arms anchor			
18	16.64.056.01	U-bolt - frame anchor			
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			
21	16.64.387.00(*)	Bracket - fan supporting			
22	16.64.386.00(*)	Bracket - Cardan shafts linkage support			
23	16.64.392.01(*)	Guide ring for fan suction hose			
24	16.64.393.01(*)	Hose guide ring anchor			

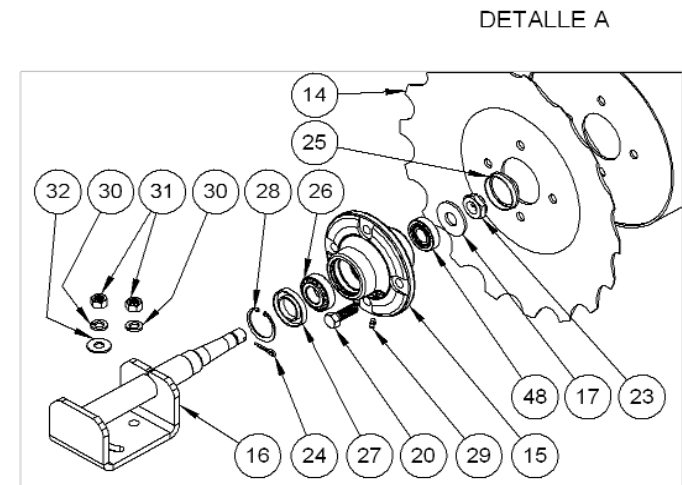
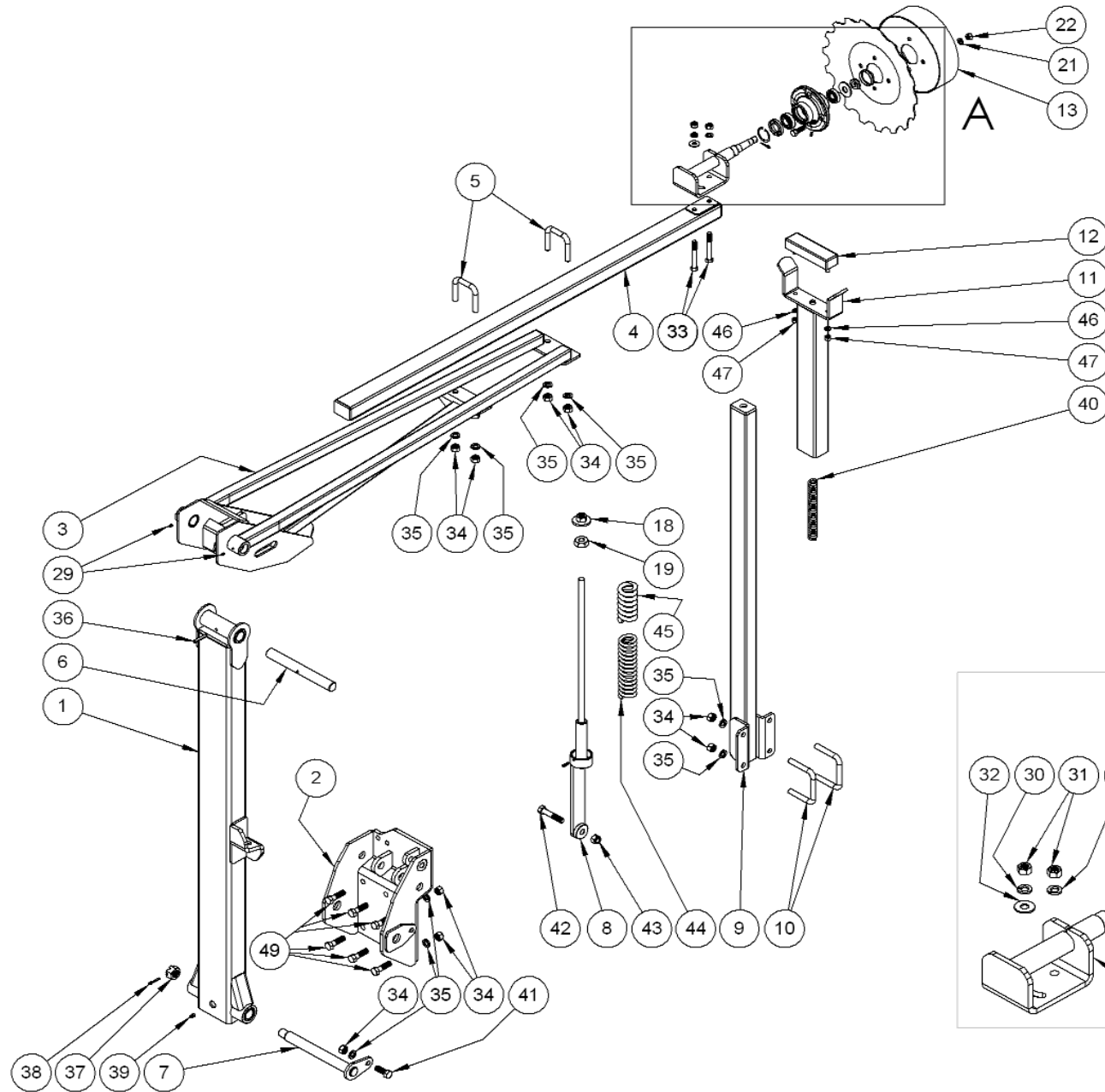
(*) Parts for pneumatic machines



WORKING HITCH FOR 2 FRAME MACHINE

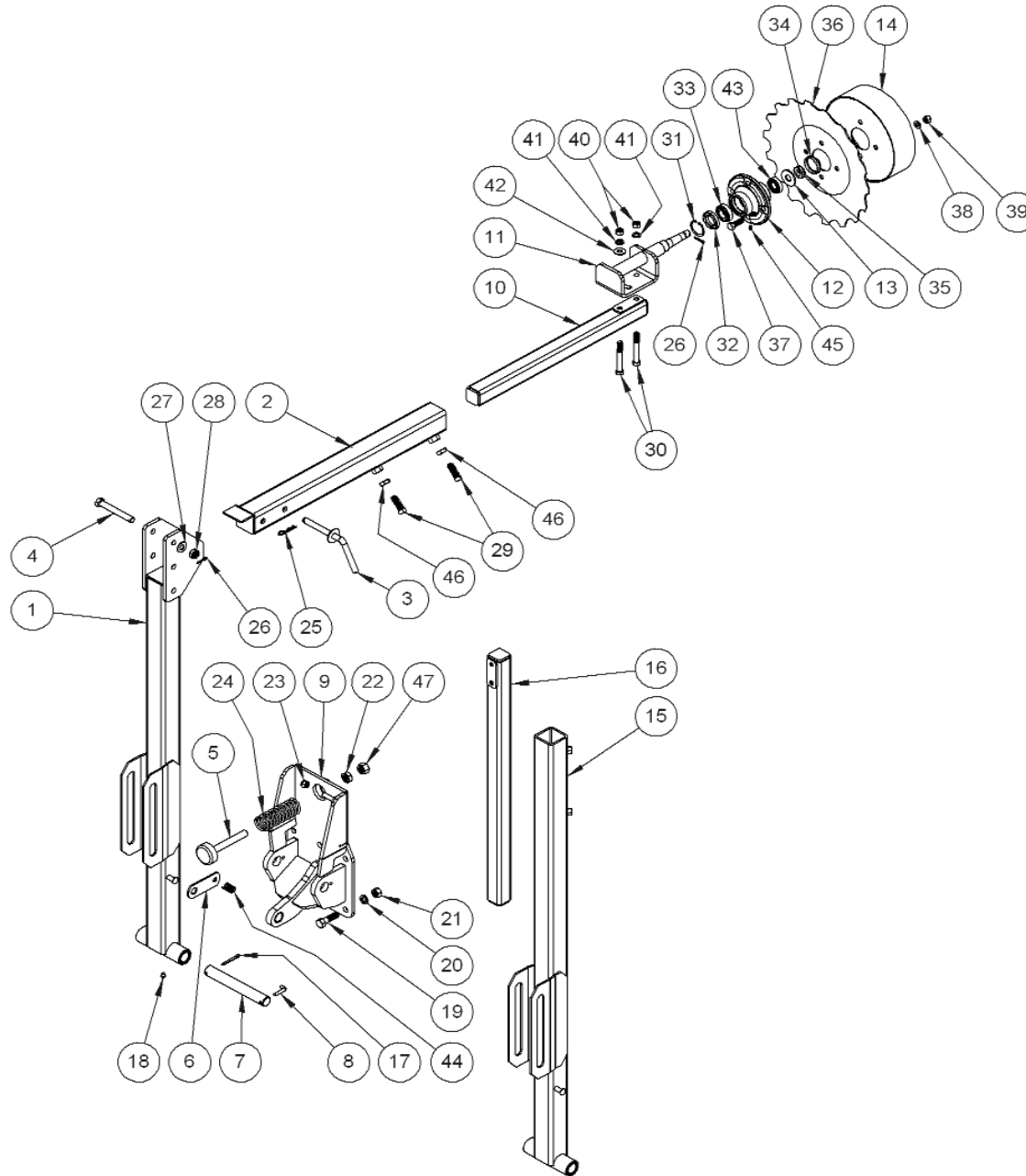
Item	Code Number	Description	Item	Code Number	Description
1	16.64.002.00	Working hitch 1st section (right)	31	18.19.04.013	Hex flat nut -.BSW - left- 1 1/4" double-chrome coated
2	16.64.001.00	Working hitch 1st section (left)	32	18.38.01.271	Spring - shock absorber seat
3	16.64.014.00	Plate - hitch final section joint end			
4	16.64.190.00	Round bar - hitch joint adjustment for 20 and 26 rows at 525			
4	16.64.005.00	Round bar - hitch joint adjustment for 20-24-28 rows at 400			
5	16.64.007.00	Left hitch adjustment and frame rear joint			
6	16.64.006.00	Right hitch adjustment and frame rear joint			
7	16.64.008.01	Working hitch short lock			
8	16.64.009.01	Working hitch long lock			
9	16.64.010.01	Pin - working hitch final section lock			
10	16.64.011.01	Pin - working hitch 1st section lock			
11	16.64.167.01	Rod - hitch shock absorber stand			
12	16.64.013.00	Working hitch cylinder lower support			
13	16.64.012.00	Working hitch stand			
14	16.64.189.00	Hitch right final section for 20 and 26 rows at 525			
14	16.64.003.00	Hitch right final section for 20,24,28 and 30 rows at 400			
15	16.64.188.00	Hitch left final section for 20 and 26 rows at 525			
15	16.64.004.00	Hitch left final section for 20,24,28 and 30 rows at 400			
16	18.27.01.003	Retaining pin - 4.5 x 80			
17	18.03.10.109	Hex head bolt - BSW 3/4" x 4 1/2" double-chrome coated			
18	18.02.10.009	Lock washer - 3/4" double-chrome coated			
19	18.16.10.009	Hex nut - BSW 3/4" double-chrome coated			
20	18.27.01.008	Retaining pin - 5 x 110			
21	18.19.10.013	Flat hex nut - BSW 1 1/4" double-chrome coated			
22	16.64.591.01	Hex head bolt - BSW -G.5- 1 1/4" x 5 1/2" double-chrome coated			
23	18.37.10.024	Lock nut -BSW 1 1/4"			
24	18.37.10.015	Lock nut - BSW 3/4"			
25	18.27.01.001	Retaining pin - 3 x 70			
26	18.03.10.059	Hex head bolt - BSW 1/2" x 3" double-chrome coated			
27	18.37.01.013	Lock nut - W 1/2"			
28	18.29.01.001	Straight grease nipple - 1/4"			
29	15.37.905.10	Jack stand			
30	16.64.590.01	Hex head bolt - BSW-G.5- 1 1/4" x 6 1/2" double-chrome coated			





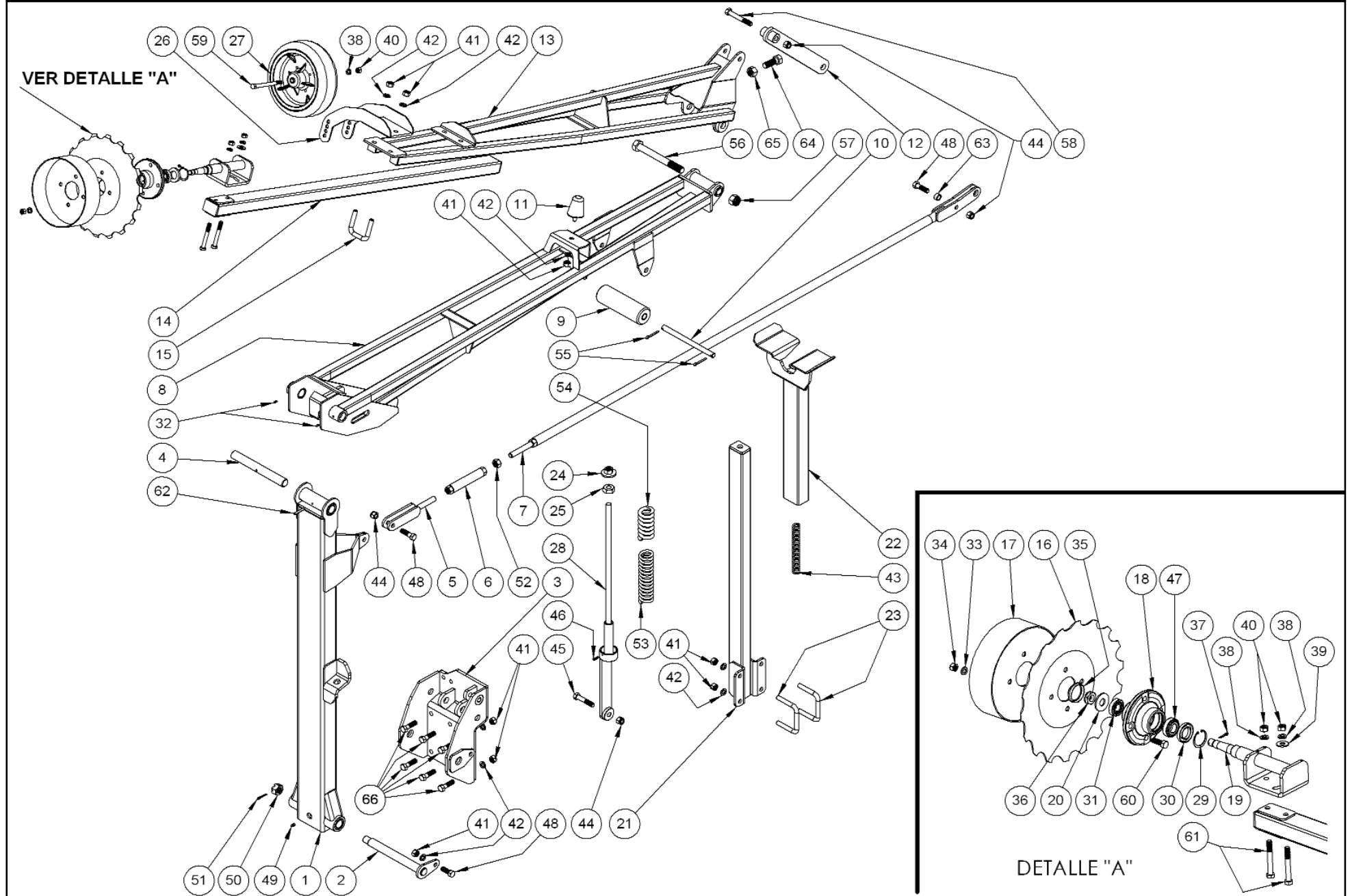
SINGLE ROW MARKERS

Item	Code	Description	Item	Code	Description
1	16.64.103.00	Right marker initial section	26	18.33.01.011	Bearings - 30204
1	16.64.092.00	Left marker initial section	27	18.34.01.109	Grease seal - DBH 5171
2	16.64.102.00	Marker right supporting arm	28	18.32.01.043	Seeger ring 55.l
2	16.64.090.00	Marker left supporting arm	29	18.29.01.001	Straight grease nipple - 1/4" NF
3	16.65.314.00	Marker intermediate section for 20rows at 400 and 16 rows at 525	30	18.02.10.006	Lock washer - 1/2" double-chrome coated
3	16.65.313.00	Marker intermediate section for 16 rows at 400mm and 14 rows at 525mm	31	18.16.10.006	Hex nut - BSW 1/2" double-chrome coated
4	16.64.095.00	Supporting bar - marker disk final section for 20 rows at 400 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	16.64.223.00	Supporting bar - marker disk final section for 16 rows at 400mm	34	18.16.10.008	Hex nut - BSW 5/8" double-chrome coated
4	16.64.495.00	Supporting bar - marker disk final section for 14 rows at 525mm	35	18.02.10.008	Lock washer - 5/8" double-chrome coated
5	16.64.099.01	U-bolt: marker final section anchor	36	18.26.01.026	Spring pin - 8 x 50
6	16.64.093.01	Pin - marker end section turning axle	37	18.18.10.011	Castle nut - SAE 1"
7	16.64.091.01	Pin - marker initial section turning axle	38	18.25.01.007	Split Cotter pin - 4 x 40
8	16.64.101.00	Marker shock absorber spring guide	39	18.29.01.002	Straight grease nipple - 1/8" BSP
9	16.64.096.00	Supporting bar for shock absorber - final section	40	18.38.01.267	Shock absorber spring - marker seat
10	16.64.056.01	U-bolt: frame anchor	41	18.03.10.076	Hex head bolt - BSW 5/8" x 1 3/4" double-chrome coated
11	16.65.366.00	Bracket: shock absorber stand	42	18.03.10.082	Hex head bolt - BSW 5/8" x 3 1/4" double-chrome coated
12	16.56.138.10	Vulcanized pad - shock absorber seat	43	18.37.01.012	Lock nut - 5/8"
13	16.65.322.00	Depth control disk - 16"	44	18.38.01.268	Spring - marker closing shock absorber
14	18.35.01.096	Notched marker disk - 16"	45	18.38.01.269	Spring - marker opening shock absorber
15	16.65.320.00	Marker 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	18.33.01.012	Bearings 30205
18	16.64.187.00	Nut - shock absorber stop-end (opening)	49	18.03.10.078	Hex head bolt BSW 5/8" x 2 1/4" - double chrome coated
19	16.64.100.01	Nut - marker shock absorber stop-end			
20	18.03.01.009	Hex head bolt - BSW 1/4" x 1 1/4"			
21	18.02.01.002	Lock washer - 1/4"			
22	18.16.01.002	Hex nut - BSW 1/4"			
23	18.21.01.009	Flat castle nut - SAE 3/4"			
24	18.25.01.003	Split Cotter pin - 3 x 25			
25	16.26.074.00	Hub cover - disk support			



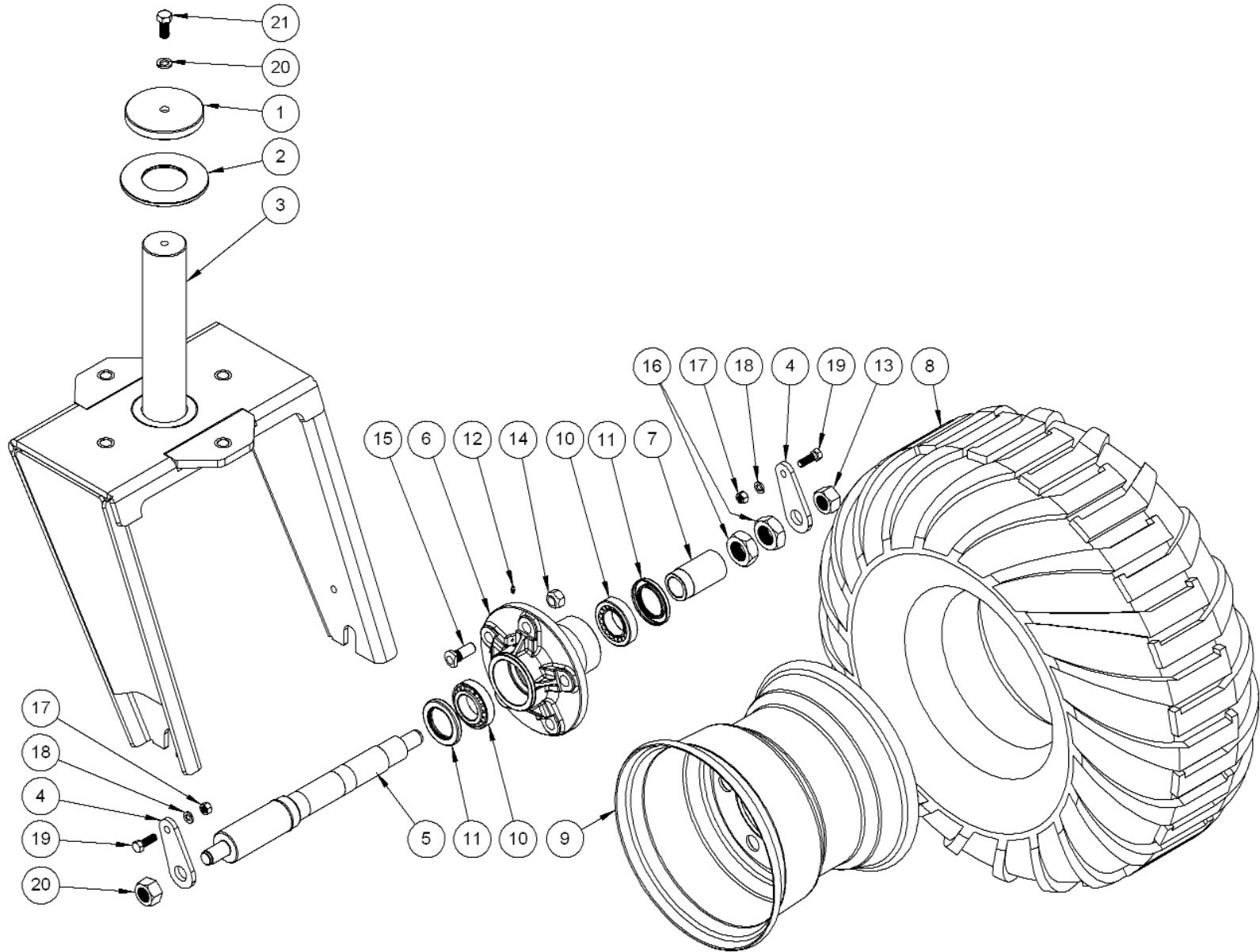
ROW MARKERS FOR 10 ROWS AT 400 AND 525MM - 1 FRAME MACHINE

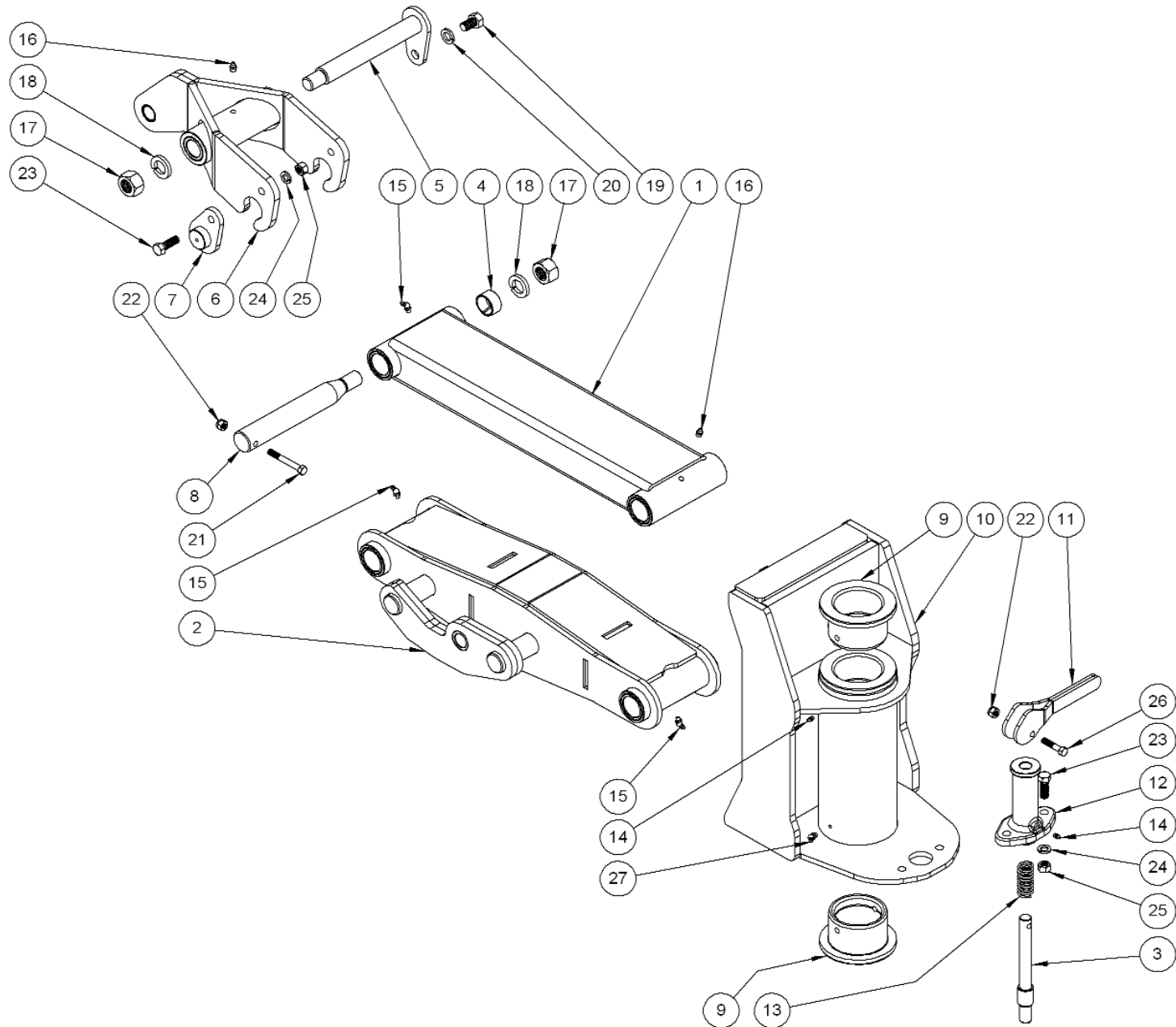
Item	Code Number	Description	Item	Code Number	Description
1	16.64.471.00	Right marker initial section for 10 rows at 525 mm	30	18.03.10.060	Hex head bolt - BSW 1/2" x 3 1/2" double-chrome coated
1	16.64.473.00	Left marker initial section for 10 rows at 525 mm	31	18.32.01.043	Seeger ring 55.l
2	16.64.475.00	Right marker intermediate section for 10 rows at 525	32	18.34.01.109	Grease seal -DBH 5171
2	16.64.472.00	Left marker intermediate section for 10 rows at 525	33	18.33.01.011	Bearings 30204
3	16.30.228.00	Pin - marker position lock	34	16.26.074.00	Hub cover - disk support
4	16.30.227.00	Bolt - marker final section lock	35	18.21.01.009	Flat castle nut - SAE 3/4"
5	16.61.037.01	Rod w/spring guide stop-end	36	18.35.01.096	16" Notched marker disk
6	16.61.076.01	Plate - marker lock	37	18.03.01.009	Hex head bolt - BSW 1/4" x 1 1/4"
7	16.30.032.01	Pin - marker turning axle	38	18.02.01.002	Lock washer -1/4"
8	16.02.023.00	Pin lock	39	18.16.01.002	Hex nut - BSW 1/4"
9	16.64.462.00	Marker right support	40	18.16.10.006	Hex nut - BSW 1/2" double-chrome coated
9	16.64.435.00	Marker left support	41	18.02.10.006	Lock washer -1/2" double-chrome coated
10	16.64.476.00	Marker final section for 10 rows at 525mm	42	18.01.10.006	Flat washer - 1/2" double-chrome coated
11	16.65.321.00	Bracket - marker support and axle	43	18.33.01.012	Bearing 30205
12	16.65.320.00	Marker hub	44	18.38.01.165	Spring
13	18.01.01.009	Flat washer 3/4"	45	18.29.01.001	Straight grease nipple 1/4" NF
14	16.65.322.00	Depth control wheel for 16" disk	46	18.19.10.008	Flat hex nut BSW 5/8" - double chrome coated
15	16.64.463.00	Right marker initial section for 10 rows at 400 mm	47	18.19.10.009	Flat hex nut BSW 3/4" double chrome coated
15	16.64.464.00	Left marker initial section for 10 rows at 400 mm			
16	16.64.465.00	Marker final section for 10 rows at 400mm			
17	18.25.01.019	Split Cotter pin - 6 x 50			
18	18.29.01.002	Straight grease nipple - 1/8" BSP			
19	18.03.10.078	Hex head bolt - BSW 5/8" x 2 1/4" - double-chrome coated			
20	18.02.10.008	Lock washer - 5/8" double-chrome coated			
21	18.16.10.008	Hex nut -BSW 5/8" double-chrome coated			
22	18.16.01.015	Lock nut - BSW 3/4"			
23	18.37.01.013	Lock nut -1/2"			
24	18.38.01.226	Spring - marker stop-end			
25	18.27.01.001	Retaining pin - 3 x 70			
26	18.25.01.003	Split Cotter pin -3 x 25			
27	18.01.10.008	Flat washer - 5/8" double-chrome coated			
28	18.18.01.008	Castle nut - SAE 5/8"			
29	18.06.10.076	Square head bolt - BSW 1/2" x 1 1/2" double-chrome coated			

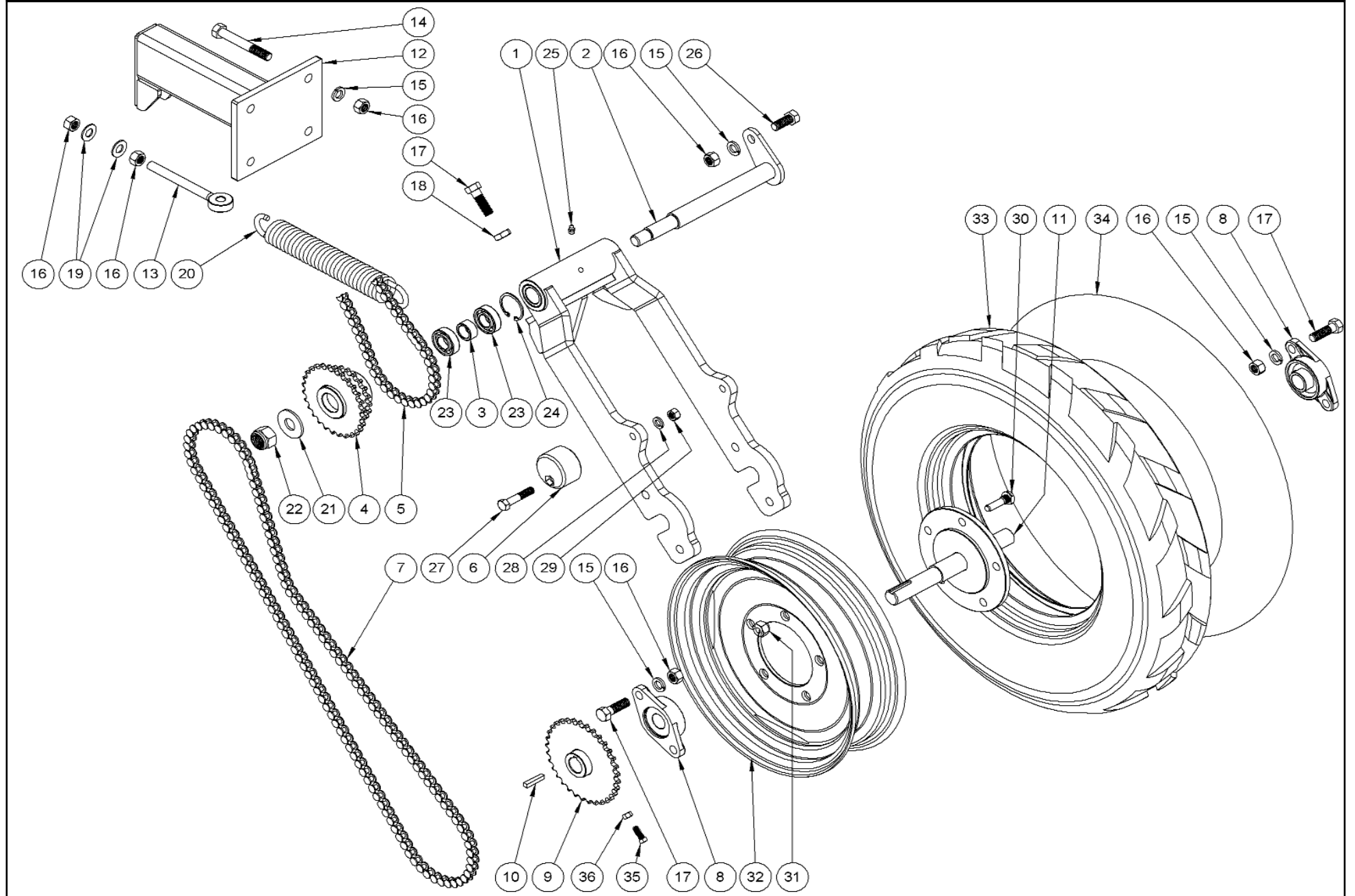


3 SECTION ROW MARKERS

Item	Code Number	Description	Item	Code Number	Description
1	16.64.215.00	Left marker initial section	29	18.32.01.043	Seeger ring 55.l
1	16.64.224.00	Right marker initial section	30	18.34.01.109	Grease seal DBH 5171
2	16.64.091.01	Pin - marker initial section turning axle	31	18.33.01.012	Bearings 30205
3	16.64.102.00	Marker right support	32	18.29.01.001	Straight grease nipple -1/4"NF
3	16.64.090.00	Marker left support	33	18.02.10.002	Lock washer - 1/4" double-chrome coated
4	16.64.093.01	Rod - marker final section turning	34	18.16.10.002	Hex nut - BSW 1/4" double-chrome coated
5	16.64.421.00	Left adjustment - marker final section end	35	16.26.074.00	Hub cover - disk support
6	16.64.418.00	Marker beam short adjustment	36	18.21.01.009	Flat castle nut - SAE 3/4"
7	16.64.416.00	Beam - for marker 20 rows at 525mm and 28 rows at 400mm	37	18.25.01.003	Split Cotter pin - 3 x 25
7	16.64.417.00	Beam - for marker 26 rows at 525mm	38	18.02.10.006	Lock washer - 1/2" double-chrome coated
7	16.64.424.00	Beam - for marker 24 rows at 400mm	39	18.01.10.006	Flat washer - 1/2" double-chrome coated
8	16.65.317.00	Marker intermediate section for 26 rows at 525mm	40	18.16.10.006	Hex nut -BSW 1/2" double-chrome coated
8	16.65.316.00	Marker intermediate section for 20 rows at 525mm and 28 rows at 400mm	41	18.16.10.008	Hex nut - BSW 5/8" double-chrome coated
8	16.65.315.00	Marker intermediate section for 24 rows at 400mm	42	18.02.10.008	Lock washer - 5/8" double-chrome coated
9	16.64.381.10	Roll - shock absorber	43	18.38.01.267	Spring - marker stand shock absorber
10	16.64.380.01	Pin - roll axle	44	18.37.01.012	Lock nut - 5/8"
11	16.33.339.10	Marker shock absorber	45	18.03.10.082	Hex head bolt - BSW 5/8" x 3 1/4" double-chrome coated.
12	16.64.415.00	Arm w/stop-end - marker final section operation	46	18.06.10.006	Square head bolt - BSW 1/4" x 3/4"
13	16.64.350.00	Marker final section for 26 rows at 525mm	47	18.33.01.011	Bearings 30204
13	16.64.222.00	Marker final section for 20 rows at 525mm and 24 and 28 rows at 400mm	48	18.03.10.076	Hex head bolt BSW 5/8" x 1 3/4" double chrome coated
14	16.64.095.00	Disk supporting bar - marker final section for 20 and 28 rows at 400mm and 16 rows at 525mm	49	18.29.01.002	Straight nipple 1/8" BSP
			50	18.18.10.011	Castle nut -SAE 1"
14	16.64.223.00	Disk supporting bar - marker final section for 20 and 26 rows at 525mm, 16 and 24 rows at 400mm	51	18.25.10.008	Split Cotter pin - 4 x 40
			52	18.16.10.009	Hex nut - BSW 3/4" double-chrome coated
14	16.64.556.00	Disk supporting bar -marker final section for 39 rows at 262.5mm	53	18.38.01.268	Spring - marker closing shock absorber
15	16.64.099.01	U-bolt - marker final section anchor	54	18.38.01.285	Spring - marker opening shock absorber
16	18.35.01.096	16" notched marker disk	55	18.25.10.019	Split Cotter pin- 6 x 50 double-chrome coated
17	16.65.322.00	Deph control wheel for 16" disk	56	18.43.10.149	Hex head bolt -BSW 1" x 9" double-chrome coated
18	16.65.320.00	Marker hub	57	18.37.01.025	Lock nut - 1"
19	16.65.321.00	Bracket - marker support and axle	58	18.03.10.085	Hex head bolt -BSW 5/8" x 4 1/2" double-chrome coated
20	18.01.01.009	Flat washer 3/4"	59	18.03.10.065	Hex head bolt -BSW 1/2" x 6" double-chrome coated
21	16.64.230.00	Supporting bar for marker intermediate section shock absorber	60	18.03.01.008	Hex head bolt -BSW 1/4" x 1" double-chrome coated
22	16.64.229.00	Stand - 3-section marker shock absorber	61	18.03.10.060	Hex head bolt -BSW 1/2" x 4"double-chrome coated
23	16.64.056.01	U-bolt - frame anchor	62	18.26.01.026	Spring pin - 8 x 50
24	16.64.187.01	Nut -stop-end for opening shock absorber spring	63	16.14.079.01	Bushing
25	16.64.100.01	Nut - stop-end for marker shock absorber	64	18.03.10.167	Hex head bolt -BSW 7/8" x 2 1/2" double-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 stand	66	18.03.10.078	Hex head bolt BSW 5/8" x 2 1/4" double-chrome coated
28	16.64.101.00	Marker shock absorber spring guide			

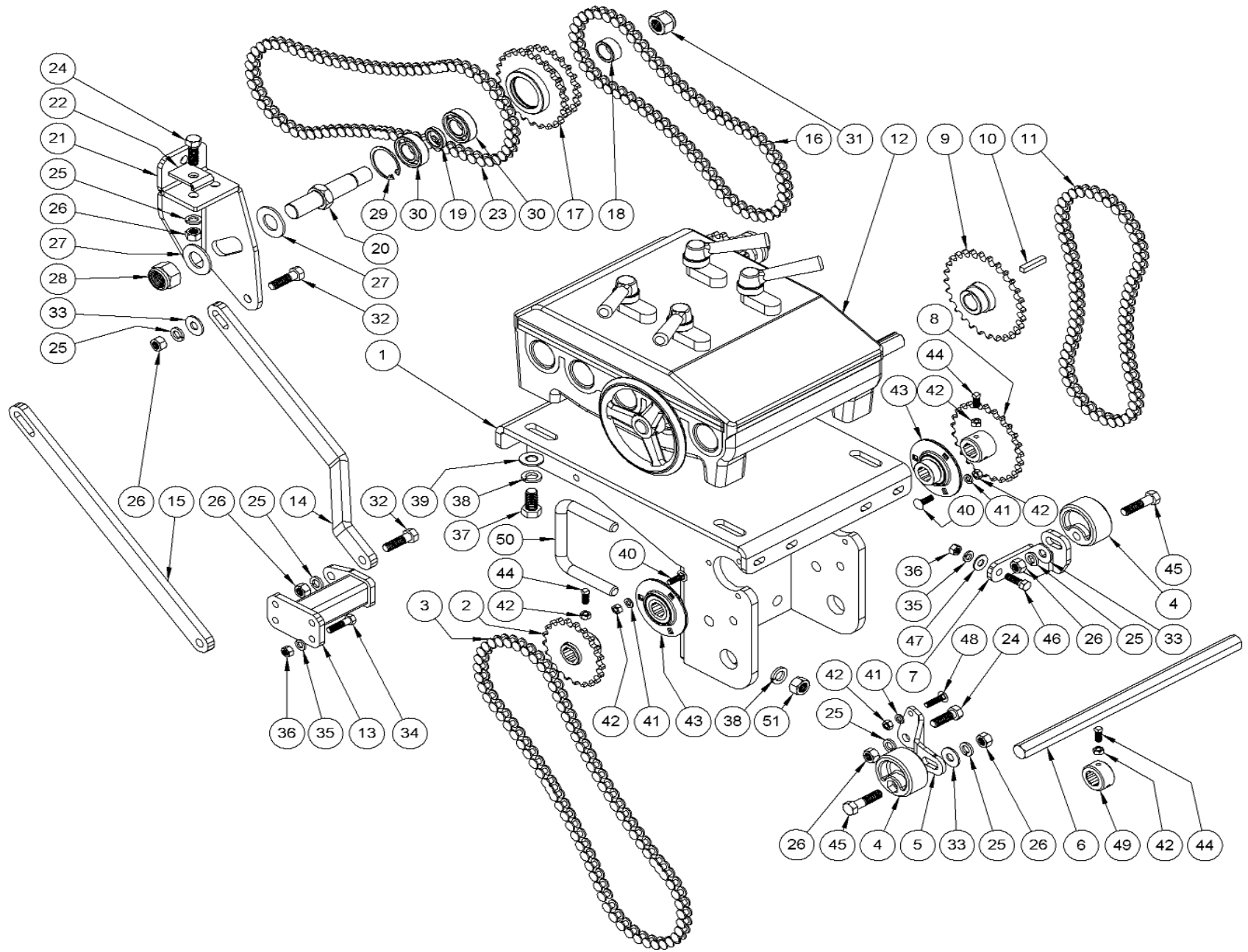






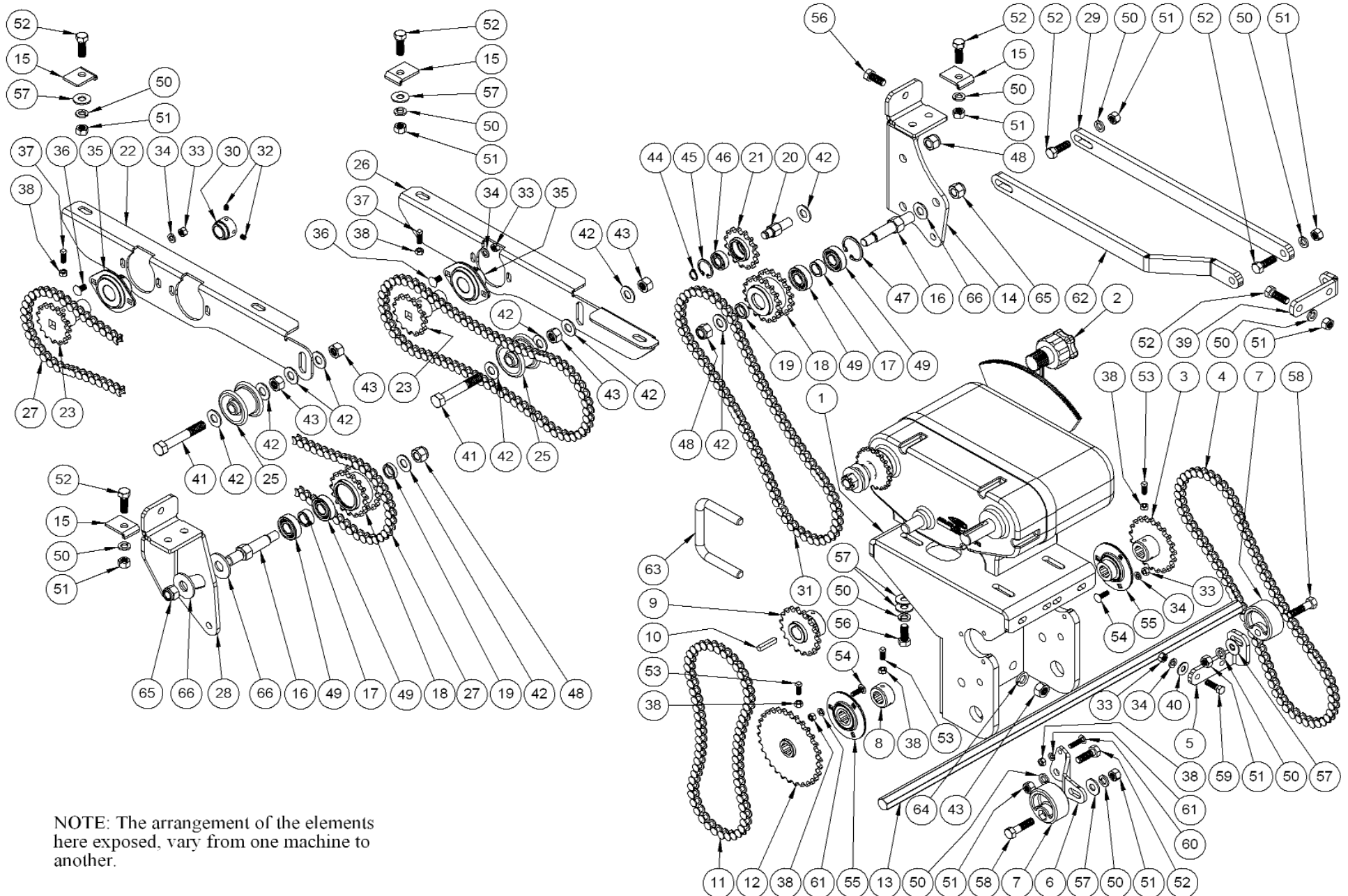
DRIVE WHEEL

Item	Code Number	Description	Item	Code Number	Description
1	16.64.046.00	Fork - drive wheel holder	35	18.06.10031	Square head bolt 3/8" x 1" double-chrome coated
2	16.64.047.01	Rod - pivoting drive wheel shaft	36	18.16.10.004	Hex nut BSW 3/8" double-chrome coated
3	16.64.051.01	Spacer - Ø35 x Ø25.2 x 17			
4	16.64.049.01	Double gear Z:28-21 drive shaft operation			
5	16.64.054.00	Roller chain - wheel pivot shaft			
6	16.60.045.10	Roller chain tensioner			
7	16.64.053.00	Roller chain - drive wheel shaft			
8	18.33.01.105	Bearing 206 for Ø30 w/cast housing			
9	16.64.050.01	Gear sprocket Z:33- drive wheel			
10	16.52.043.00	Lock pin			
11	16.64.048.00	Drive wheel shaft w/anchoring plate			
12	16.64.044.00	Drive wheel tensioning spring anchorage			
13	16.64.045.01	Spring tightener - drive wheel			
14	18.03.10.085	Hex head bolt - BSW 5/8" x 4 1/2" double-chrome coated			
15	18.02.10.008	Lock washer - 5/8" double-chrome coated			
16	18.16.10.008	Hex nut - BSW 5/8" double-chrome coated			
17	18.03.10.077	Hex head bolt - BSW 5/8" x 2" double-chrome coated			
18	18.19.10.008	Flat nut - 5/8" double-chrome coated			
19	18.01.10.008	Flat washer - 5/8" double-chrome coated			
20	18.38.01.266	Drive wheel tensioning spring			
21	18.01.10.010	Flat washer - 7/8" double-chrome coated			
22	18.37.01.023	Lock nut - 7/8"			
23	18.33.01.003	Bearing - 6205 2RS			
24	18.32.01.013	Seeger ring - 52.l			
25	18.29.01.002	Straight grease nipple - 1/8" BSP			
26	18.03.10.075	Hex head bolt - BSW 5/8" x 1 1/2" double-chrome coated			
27	18.03.10.058	Hex head bolt - BSW 1/2" x 2 3/4" double-chrome coated			
28	18.02.10.006	Lock washer - 1/2" double-chrome coated			
29	18.16.10.006	Hex nut - BSW 1/2" double-chrome coated			
30	18.12.01.054	Knurled bolt - SAE 1/2" x 1 3/4"			
31	18.24.01.006	Nut - FORD B 1012 SAE 1/2"			
32	18.36.01.098	Rim - 4.00 - 16			
33	18.36.03.003	Tire - 6.00 x 16 (6T.)			
34	18.36.01.045	Inner tube - 6.00 x 16			



54-SHIFT GEARBOX AND SUPPORTING BASE

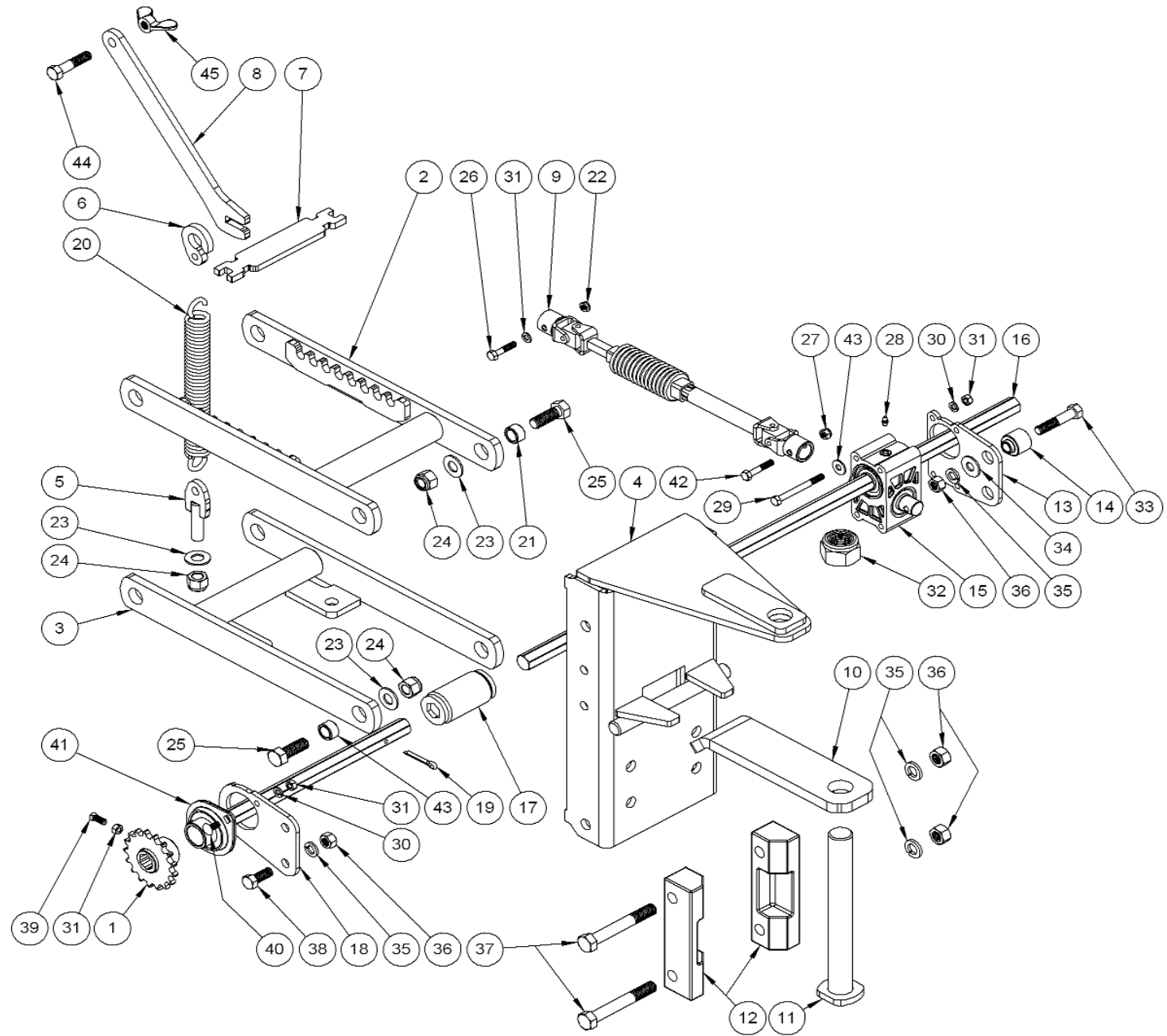
Item	Code Number	Description	Item	Code Number	Description
1	16.64.055.00	Supporting base for 54-shift gearbox	27	18.01.10.011	Flat washer 3/4"double-chrome coated
2	16.64.052.01	Gear sprocket Z:21 drive shaft	28	18.38.01.025	Lock nut 3/4"
3	16.64.054.00	Roller chain- wheel fork pivot axle	29	18.32.01.013	Seeger retaining ring 52.l
4	16.64.062.10	Roller chain tensioning lobe	30	18.33.01.003	Bearing - 6205 2RS
5	16.64.313.01	Left tensioner - drive wheel countershaft	31	18.37.01.023	Lock nut -7/8"
5	16.64.312.01	Right tensioner - drive wheel countershaft	32	18.03.10.054	Hex head bolt - BSW 1/2" x 1 3/4" double-chrome coated
6	16.64.249.01	Gearbox drive shaft for 16,24,28 rows at 400 mm; and 14,16 and 26 rows at 525 mm	33	18.01.10.006	Flat washer -1/2" double-chrome coated
			34	18.03.10.033	Hex head bolt - BSW 3/8" x 1 1/2" double-chrome coated
6	16.64.355.01	Gearbox drive shaft for 10 rows at 400mm, 10 rows at 525 and 20 rows at 525mm	35	18.02.10.004	Lock washer - 3/8" double-chrome coated
			36	18.16.10.004	Hex nut - BSW 3/8" double-chrome coated
6	16.64.068.01	Gearbox drive shaft for 20 rows at 400mm	37	18.03.10.074	Hex head bolt -BSW 5/8" x 1 1/4" double-chrome coated
7	16.64.058.01	Left bracket - tensioning lobe (planting)	38	18.02.10.008	Lock washer -5/8" double-chrome coated
7	16.64.293.01	Right bracket - tensioning lobe (planting)	39	18.01.10.008	Flat washer - 5/8" double-chrome coated
8	16.64.057.01	Gear sprocket Z:25 - gearbox drive shaft	40	18.04.10.018	Round head square neck bolt- BSW 5/16" x 1" double-chrome coated
9	16.64.282.10	Gear sprocket Z:28 ASA 50 w/gearbox inlet hub	41	18.02.10.003	Lock washer - 5/16" double-chrome coated
10	16.64.400.10	Square pin - sprocket Z:28 - 54-shift gearbox	42	18.16.10.003	Hex nut -BSW 5/16" double-chrome coated
11	16.64.073.00	Roller chain - shaft to variator	43	18.33.01.106	Bearing -205 for hex 22 w/housing
12	15.64.960.10	Right 54-shift gearbox	44	18.06.10.013	Square bolt -BSW 5/16" x 3/4" double-chrome coated
12	15.64.913.10	Left 54-shift gearbox	45	18.03.10.055	Hex head bolt -BSW 1/2" x 2" double-chrome coated
13	16.64.291.00	Sprockets anchoring supporting bar	46	18.03.10.032	Hex head bolt - BSW 3/8" x 1 1/4" double-chrome coated
14	16.64.319.00	Tensioner supporting bar - planting 16 rows at 400mm	47	18.01.10.004	Flat washer - 3/8" double-chrome coated
15	16.64.288.00	Countershaft supporting bar - planting	48	18.04.10.019	Round head square neck bolt - BSW 5/16" x 1 1/4" double-chrome coated
16	16.64.061.00	Roller chain - gearbox to double sprocket	49	16.64.066.01	Bushing - drive shaft stop-end
17	16.64.059.01	Double gear sprocket - Z:25-22 countershaft	50	16.64.056.01	Clamp - mainframe anchor
18	16.64.064.01	Spacer - 35 x 25 x 16	51	18.16.10.008	Hex nut - BSW 5/8" double-chrome coated
19	16.64.065.01	Spacer - 35 x 25 x 7			
20	16.64.063.01	Shaft -double tensioning gear sprocket axle Z:25-22			
21	16.64.194.00	Right support -countershaft gear for planting and fertilizing			
21	16.64.193.00	Left support - countershaft gear for planting and fertilizing			
22	16.64.075.01	Platform lock			
23	16.64.067.00	Roller chain - double gear sprockets to row units drive shafts			
24	18.03.10.053	Hex head bolt -BSW 1/2" x 1 1/2" double-chrome coated			
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			



NOTE: The arrangement of the elements here exposed, vary from one machine to another.

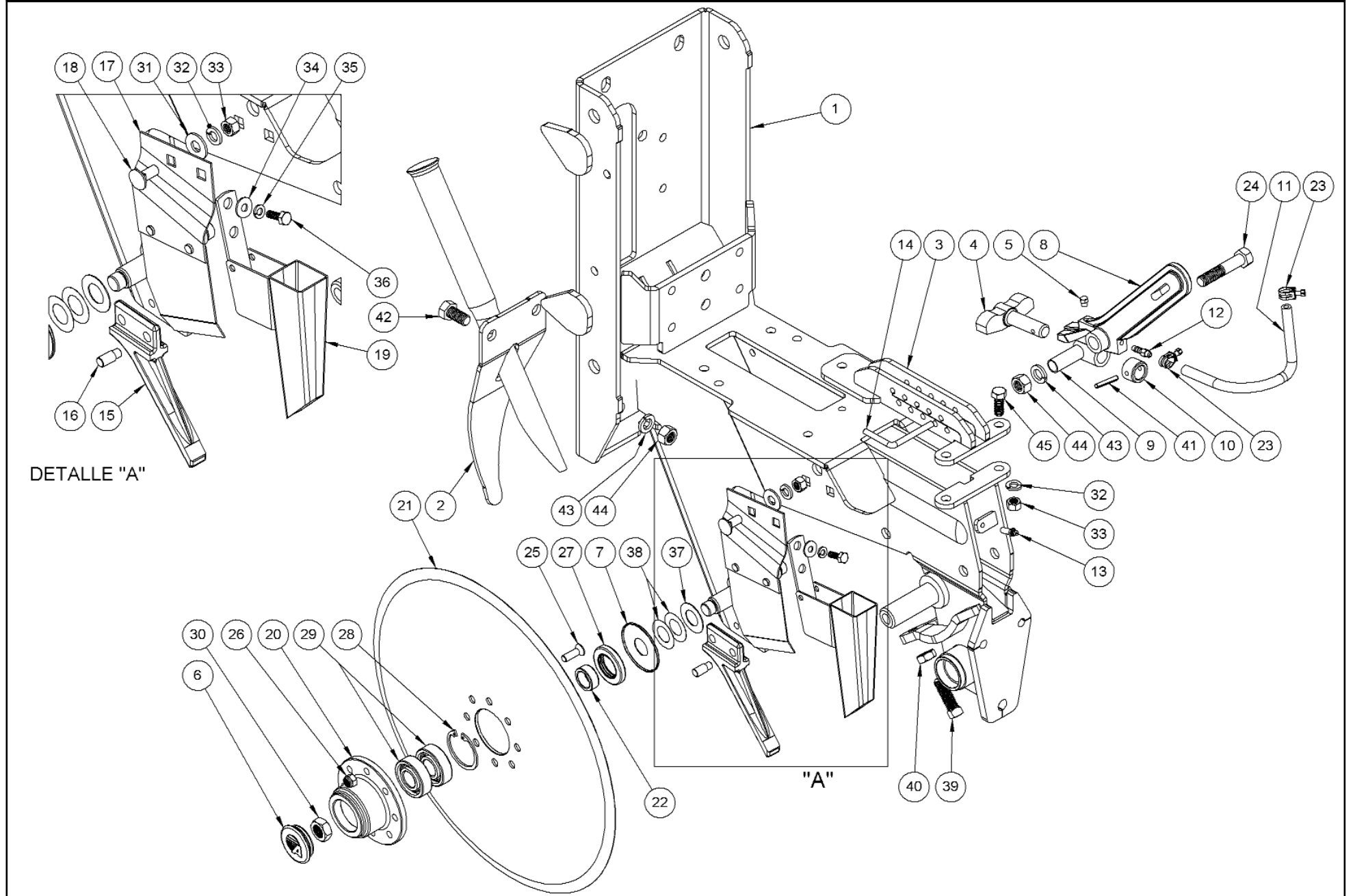
SPEED VARIATOR, SUPPORTING BASE AND TRANSMISSION

Item	Code Number	Description	Item	Code Number	Description
1	16.64.043.00	Variator gearbox support	24	16.64.085.00	Roller chain - double gear sprocket Z:17-17 to gear Z:15 front box axle for double fertilization
2	15.64.821.00	Right gearbox w/electronic adjustment (represented in picture)	25	16.10.055.10	Large pulley
2	15.64.813.00	Left gearbox w/electronic adjustment	26	16.64.498.00	Plate - housing and rear tensioner left support
2	15.64.820.00	Right gearbox w/mechanical adjustment	26	16.64.499.00	Plate - housing and rear tensioner right support
2	15.64.917.00	Left gearbox w/mechanical adjustment	27	16.64.086.00	Long roller chain: double gear Z:17-17 to gear Z:15 front box axle for double fertilization
3	16.64.052.01	Gear sprocket - Z:21 - transmission primary shaft	28	16.64.194.00	Right support-countershaft gear for seeds and fertilizer box
4	16.64.054.00	Roller chain - wheel pivot shaft	28	16.64.193.00	Left support-countershaft gear for seeds and fertilizer front box
5	16.64.070.01	Bracket - right variator tensioning lobe support	29	16.64.289.00	Strap - fertilizer countershaft support
5	16.64.295.01	Bracket - left variator tensioning lobe support	30	16.64.307.01	Transmission shaft stop-end
6	16.64.313.01	Left tensioner - drive wheel countershaft	31	16.64.084.00	Roller chain - variator to double gear sprocket
6	16.64.312.01	Right tensioner - drive wheel countershaft	32	18.09.02.019	Allen screw - embedded head 5/16" x 3/8"
7	16.64.062.10	Roller chain tensioning lobe	33	18.16.10.004	Hex nut BSW 3/8" double-chrome coated
8	16.64.066.01	Bushing - drive shaft stop-end	34	18.02.10.004	Lock washer 3/8" double-chrome coated
9	16.64.281.10	Gear sprocket Z:15 ASA 50 w/hub	35	18.33.01.107	Bearing 206 p/ Ø30 c/caja de chapa
10	16.64.400.10	Square pin - gear sprocket Z:28 54-shift gearbox	36	18.04.10.030	Round head bolt, square body 3/8" x 3/4"
11	16.64.073.00	Roller chain: shaft to variator	37	18.06.10.017	Square head bolt BSW 5/16" x 7/8" double-chrome coated.
12	16.64.071.01	Gear sprocket Z:30 - drive shaft	38	18.16.10.003	Hex nut BSW 5/16" double-chrome coated
13	16.64.250.01	Variators driveshaft for 16 rows at 400mm, and 26 rows at 525mm	39	16.64.287.00	Linking strap
13	16.64.376.01	Variators driveshaft for 24 and 28 rows at 400mm	40	18.01.10.004	Flat washer 3/8" double-chrome coated
13	16.64.554.01	Variators driveshaft for 14 rows at 525mm	41	18.03.10.084	Hex head bolt BSW 5/8" x 4" double-chrome coated.
14	16.64.074.00	Left support for inverter gear sprocket (in picture)	42	18.01.10.008	Flat washer 5/8" double-chrome coated
14	16.64.087.00	Right support for inverter gear sprocket	43	18.16.10.008	Hex nut BSW 5/8" double-chrome coated
15	16.64.075.01	Platform lock	44	18.32.01.044	Seeger ring 15.A
16	16.64.076.01	Shaft - double sprocket Z:17 turning	45	18.32.01.045	Seeger ring 35.l
17	16.64.077.01	Spacer Ø30 x Ø20.2 x 13.5	46	18.33.01.065	Bearing 6202 2RS
18	16.64.072.01	Double gear sprocket Z:17-17 for single fertilization	47	18.32.01.011	Seeger ring 47.l
19	16.64.078.01	Spacer Ø30 x Ø20.2 x 8.5	48	18.37.01.012	Lock nut 5/8"
20	16.64.080.01	Inverter gear sprocket Z:15	49	18.33.01.032	Bearing 6204 2RS
21	16.64.079.01	Inverter gear sprocket Z:15 P.5/8"	50	18.02.10.006	Lock washer 1/2" double-chrome coated
22	16.64.496.00	Plate - housing and front tensioner left support	51	18.16.10.006	Hex nut BSW 1/2" double-chrome coated
22	16.64.497.00	Plate - housing and front tensioner right support	52	18.03.10.053	Hex head bolt - BSW 1/2" x 1 1/2" double-chrome coated.
23	16.64.082.01	Gear sprocket Z:15 w/square center	53	18.06.10.013	Square head bolt - BSW 5/16" x 3/4" double-chrome coated



OPENERS SET SUPPORTING FRAME

Item	Code Number	Description	Item	Code Number	Description
1	16.64.052.01	Gear sprocket Z:21 hex centered	25	18.03.10.076	Hex head bolt -BSW 5/8" x 1 3/4" double-chrome coated
2	16.64.131.00	Upper parallel arm	26	18.03.10.020	Hex head bolt - BSW 5/16" x 1 1/2" double-chrome coated
3	16.64.132.00	Lower parallel arm	27	18.37.01.014	Lock nut - BSW 5/16"
4	16.64.134.00	Front parallel arms support	28	18.29.01.001	Straight grease nipple -1/4" NF
5	16.64.178.01	Load spring lower anchor	29	18.03.10.027	Hex head bolt - BSW 5/16" x 3 1/4" double-chrome coated
6	16.64.177.01	Load spring upper anchor	30	18.02.10.003	Lock washer - 5/16" double-chrome coated
7	16.64.277.01	Arm - download spring operation	31	18.16.10.003	Hex nut - BSW 5/16" double-chrome coated
8	16.64.278.01	Handle - arm operation	32	18.37.01.024	Lock nut BSW 1 1/4"
9	15.64.937.10	Joint set - units transmission	33	18.03.10.057	Hex head bolt - BSW 1/2" x 2 1/2" double-chrome coated
10	16.64.139.00	Lower supporting seat - parallel arm anchorage	34	18.01.10.006	Flat washer - 1/2" double-chrome coated
11	16.64.138.01	Pin - front parallel arm anchor	35	18.02.10.006	Lock washer - 1/2" double-chrome coated
12	16.64.137.00	Flange - row unit anchor	36	18.16.10.006	Hex nut - BSW 1/2" double-chrome coated
13	16.64.148.01	Gearbox anchor	37	18.03.10.085	Hex head bolt - BSW 5/8" x 4 1/2" double-chrome coated
14	16.64.149.01	Spacer bushing	38	18.03.10.052	Hex head bolt - BSW 1/2" x 1 1/4" double-chrome coated
15	15.64.938.10	Gearbox - 1,4:1	39	18.06.10.013	Square head bolt - BSW 5/16" x 3/4" double-chrome coated
16	16.64.248.01	Countershaft -16 rows at 400	40	18.04.10.017	Round head square neck bolt - BSW 5/16" x 3/4" double-chrome coated
16	16.64.275.01	External drive shaft -16 rows at400	41	18.33.01.108	Bearing - 205 for hexagon w/metal sheet box
16	16.64.252.01	Countershaft -16 rows at 525	42	18.03.10.021	Hex head bolt BSW 5/16" x 1 3/4" double-chrome coated
16	16.64.276.01	External drive shaft -16 rows at525	43	18.01.10.003	Flat washer 5/16" double chrome coated
16	16.64.273.01	Countershaft - 20 rows at 400	44	18.03.10.056	Hex head bolt BSW 1/2" x 2 1/4" double chrome coated
16	16.64.163.01	External drive shaft - 20 rows at400	45	18.45.01.006	Wing nut 1/2"
16	16.64.352.01	Countershaft for 24 and 28 rows at 400 and external shaft for 26 rows at 525			
16	16.64.355.01	External drive shaft - 24 rows at 400			
16	16.64.351.01	Countershaft - 26 rows at 525			
16	16.64.366.01	External drive shaft - 28 rows at 400			
17	16.64.272.01	Bushing - units shaft guide linkage			
18	16.64.168.01	Bearing housing support			
19	18.25.01.012	Split cotter pin 5 x 50			
19	16.64.383.01	Gear sprocket Z:17 - hex centered, for pneumatic planting			
20	18.38.01.280	Spring - load displacement			
21	16.14.079.01	Bushing - parallel arm			
22	18.37.01.050	Lock nut "low" BSW 5/16"			
23	18.01.10.008	Flat washer 5/8" double-chrome coated			
24	18.37.01.012	Lock nut BSW 5/8"			

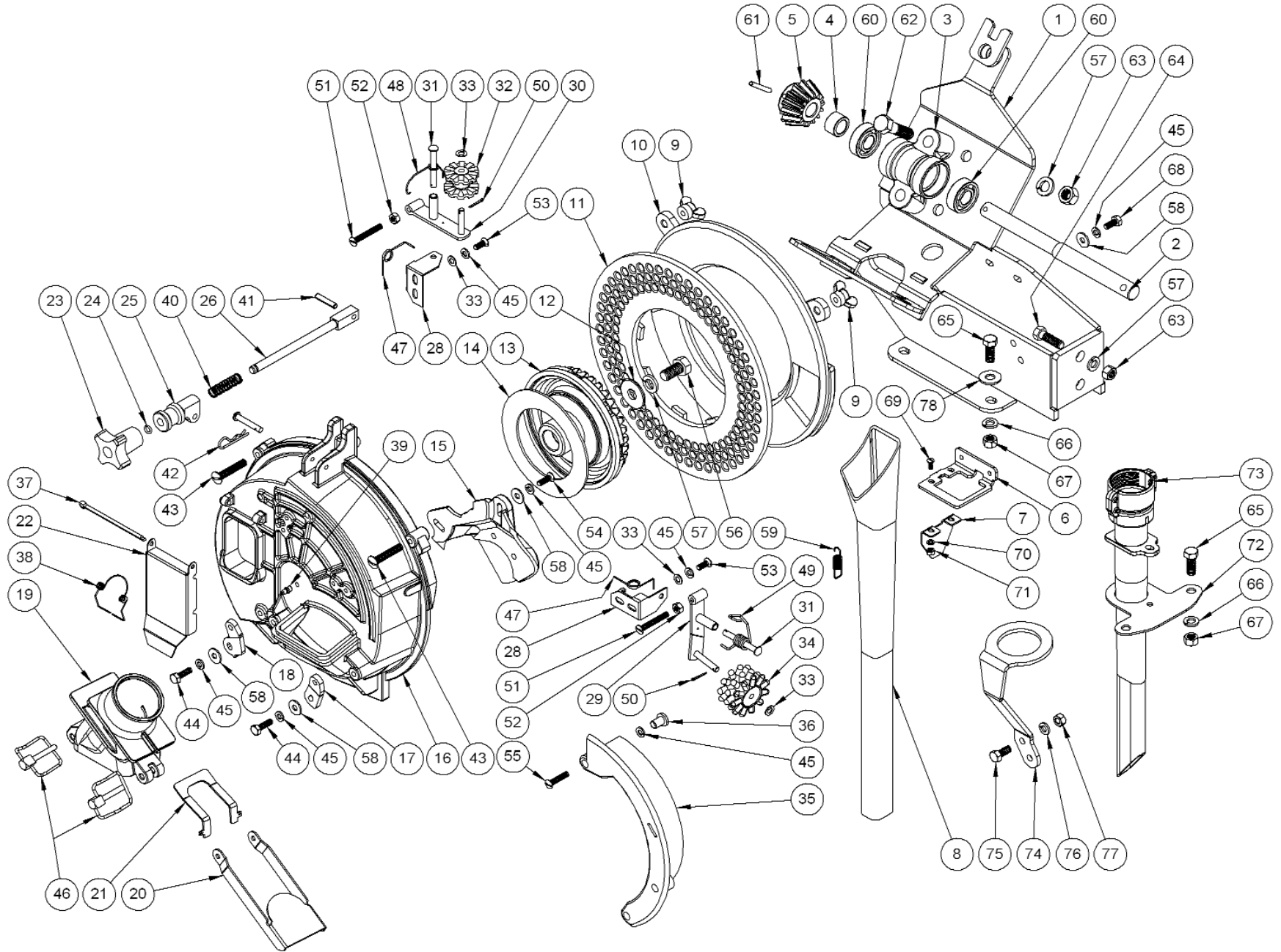


OPENERS SET

Item	Code number	Description	Item	Code number	Description
1	16.64.596.00	Opener unit	33	18.16.10.004	Hex nut RW° 3/8" double chrome coated
2	16.64.597.00	In-line fertilization tube and shield	34	18.01.10.002	Flat washer 1/4" double chrome coated
3	16.65.088.00	Arm adjustment selector	35	18.02.10.002	Lock washer 1/4" double chrome coated
4	16.30.129.01	Handle- wheel adjustment	36	18.03.10.005	Hex head bolt BSW 1/4" x 5/8" double chrome coatedo
5	16.30.196.10	Grease cap - depth control adjustment	37	16.65.328.10	Shim washer 0.8mm for Ø20 axle
6	16.65.081.10	Hub cover - double disk	38	16.65.327.10	Shim washer 0.2mm for Ø20 axle
7	16.65.080.01	Hub housing - double disk	39	18.06.10.053	Square head bolt BSW 1/2" x 1 1/2" double chrome coated.
8	16.30.127.01	Depth control adjustment	40	18.19.10.006	Hex nut RW° 1/2" double chrome coated.
9	16.30.138.00	Spacer - depth control adjustment	41	18.26.01.033	Spring pin 5 x 25
10	16.30.149.00	Bushing - wheel adjustment handle stop-end	42	18.03.10.051	Hex head bolt BSW 1/2" x 1" double chrome coatedo
11	16.64.299.00	Grease pipe	43	18.02.10.006	Lock washer 1/2" double chrome coated
12	16.30.187.10	Grease nipple	44	18.16.10.006	Hex nut BSW 1/2" double chrome coated
13	16.30.188.10	Straight grease nipple 1/4" NF	45	18.03.10.031	Hex head bolt BSW3/8" x 1" double chrome coated
14	16.30.120.01	Pin - depth control adjustment lock			
15	16.30.130.00	Inner disk scraper			
16	16.30.133.00	Pin - inner scraper holder			
17	16.65.085.10	Left exterior scraper w/reveted support			
17	16.65.086.10	Right exterior scraper w/reveted support			
18	16.30.644.10	Bolt - round head, square body BSW 3/8"x 7/8"			
19	16.54.301.00	Guiding tube -seeds and fertilizer outlet			
20	16.65.077.10	Double disk hub			
21	16.65.078.10	Semi-flat disk Ø 16" 4mm thick			
22	16.65.079.01	Bushing - grease retaining			
23	18.54.01.001	Clamp 10-12mm			
24	18.03.10.057	Hex head bolt BSW 1/2" x 2 1/2" double-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	Retaining ring DBH A308 9971			
28	18.32.01.011	Seeger ring 47.l			
29	18.33.01.032	Bearing 6204 2RS			
30	18.71.01.008	Flat hex nut SAE 5/8"			
30	18.71.01.008	Flat hex nut- left thread SAE 5/8"			
31	18.01.10.004	Flat washer 3/8" double chrome coated			
32	18.02.10.004	Lock washer 3/8" double chrome coated			

PICTURE N° 15

SEED METERING UNIT AND SUPPORTING ARM

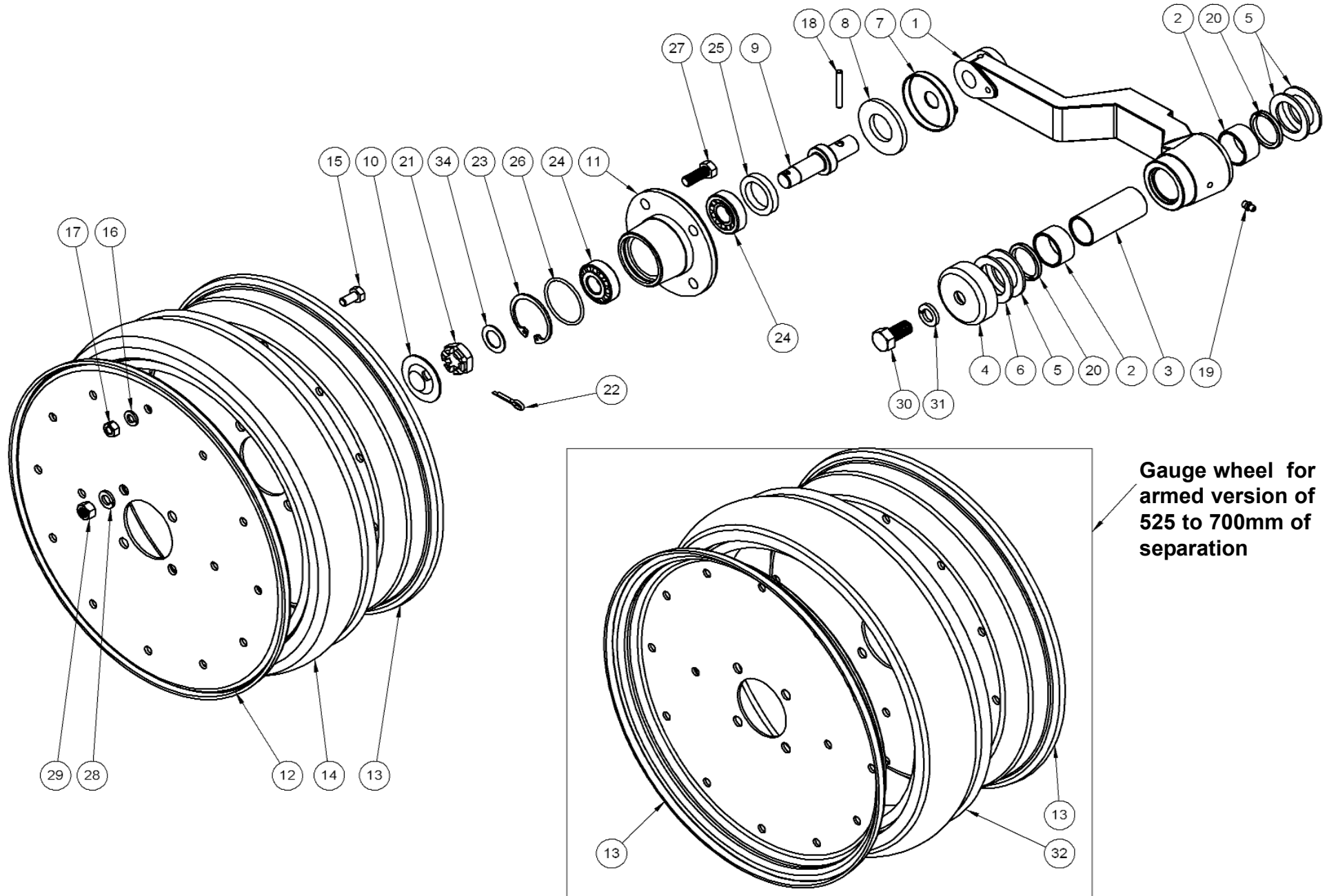


SEED METERING UNIT AND SUPPORTING ARM

Item	Code Number	Description	Item	Code Number	Description
1	16.65.102.00	Metering unit supporting frame	14	16.17.271.10	Crown ring shield
2	16.64.142.01	Conical pinion gear axle Z:14	15	15.64.528.00	Seeds flow adjustment set
3	16.64.141.00	Housing guide - meter drive axle	16	16.64.157.10	Seed meter
4	16.64.143.01	Long bushing - pinion spacer Z:14	17	16.64.154.01	Right meter anchor
5	16.64.145.00	Conical pinion gear Z:14	18	16.64.153.01	Left meter anchor
6	16.64.146.01	Seed tube holder	19	16.64.150.10	Seed meter coupling
7	16.64.147.01	Seat tube seat	20	16.64.151.01	Sliding plate - seed meter coupling closure
8	16.64.302.00	Seed tube	21	16.64.152.01	Sliding plate lock
9	16.17.160.10	Wing nut	22	16.64.156.01	Seeds inspection viewer cover
10	16.17.540.00	Seed plate holding ring	23	16.17.156.10	Handle holder
10	16.56.084.01	Seed plate holding ring <i>(special for sunflower)</i>	24	16.17.173.10	Ring
11	16.30.663.10	Seed plate for delinted cotton	25	16.64.161.10	Lock - handle holder
11	16.30.669.10	Seed plate for wheat 8,5 x 8,5	26	16.64.158.01	Meter holder
11	16.30.004.10	Seed plate for corn Ø12,5 x 5	27	16.64.292.01	Pin - meter holder lock
11	16.30.003.10	Seed plate for corn Ø 11,25 x 7	28	16.17.163.01	Ejector wheel axle holder
11	16.30.001.10	Seed plate for corn Ø 10 x 5,5	29	16.64.160.10	Ejector wheel arm
11	16.30.018.10	Seed plate for corn Ø 9,5	30	16.64.238.10	Singulator wheel holding arm
11	16.30.002.10	Seed plate for corn Ø 11 x 5,5	31	16.17.164.10	Ejector set axle
11	16.30.011.10	Seed plate for corn Ø 4,5 x 3,5	32	16.17.358.10	Double seed singulator wheel for corn
11	16.30.012.10	Seed plate for sorghum Ø 5,25 x 4	33	16.17.354.01	Flat washer Øint.7 x Øext.12.5
11	16.30.010.10	Seed plate for soybean Ø 9 x 7	34	16.17.356.10	Ejector wheel for soybean
11	16.30.009.10	Seed plate for soybean Ø 8,25 x 6	34	16.17.588.10	Ejector wheel for safflower
11	16.30.563.10	Seed plate for peanut 10.5 x 47	34	16.17.357.10	Ejector wheel for corn
11	16.30.673.10	Seed plate for peanut 19 x 10 x 10	34	16.17.359.10	Ejector wheel for sorghum
11	16.30.672.10	Seed plate for peanut Ø18 x 10	34	16.17.492.10	Ejector wheel for peanut
11	16.30.013.10	Seed plate for beans Ø 9,25	34	16.17.461.10	Ejector wheel for beans
11	16.30.014.10	Seed plate for beans 18,5 x 9 x 7	34	16.17.355.10	Ejector wheel for sunflower
11	16.30.019.10	Seed plate for beans 14 x 9 x 5,8	35	16.17.471.10	Sunflower seeds baffle
11	16.30.017.10	Seed plate for safflower 9,5 x 5 x 3	36	16.17.482.01	Nut - seeds baffle holder
11	16.30.016.10	Seed plate for sunflower 17,3 x 6,3 x 3,5	37	18.25.01.030	Split cotter pin 5 x 85
11	16.30.015.10	Seed plate for sunflower 10,5 x 5 x 3	38	18.38.01.060	Spring -meter inspection viewer
11	16.30.005.10	Seed plate for sunflower 12 x 7,4 x 5	39	18.29.01.001	Straight grease nipple 1/4" NF
11	16.30.006.10	Seed plate for sunflower 13 x 5x 3,5	40	18.38.01.270	Spring - meter lock
11	16.30.007.10	Seed plate for sunflower 13,5 x 6 x 4	41	18.26.01.015	Spring pin 6 x 30
11	16.30.008.10	Seed plate for sunflower 11,5 x 5,5 x 3,5	42	18.27.01.014	Retaining pin 2 x 40
12	16.17.172.01	Washer - bolt lock	43	18.15.01.021	Galvanized screw, tank head 5/16" x 1 3/4"
13	16.17.511.00	Conical toothed crown gear Z:35	44	18.03.10.007	Hex head bolt BSW 1/4" x 7/8" double chrome coated

SEED METERING UNIT AND SUPPORTING ARM

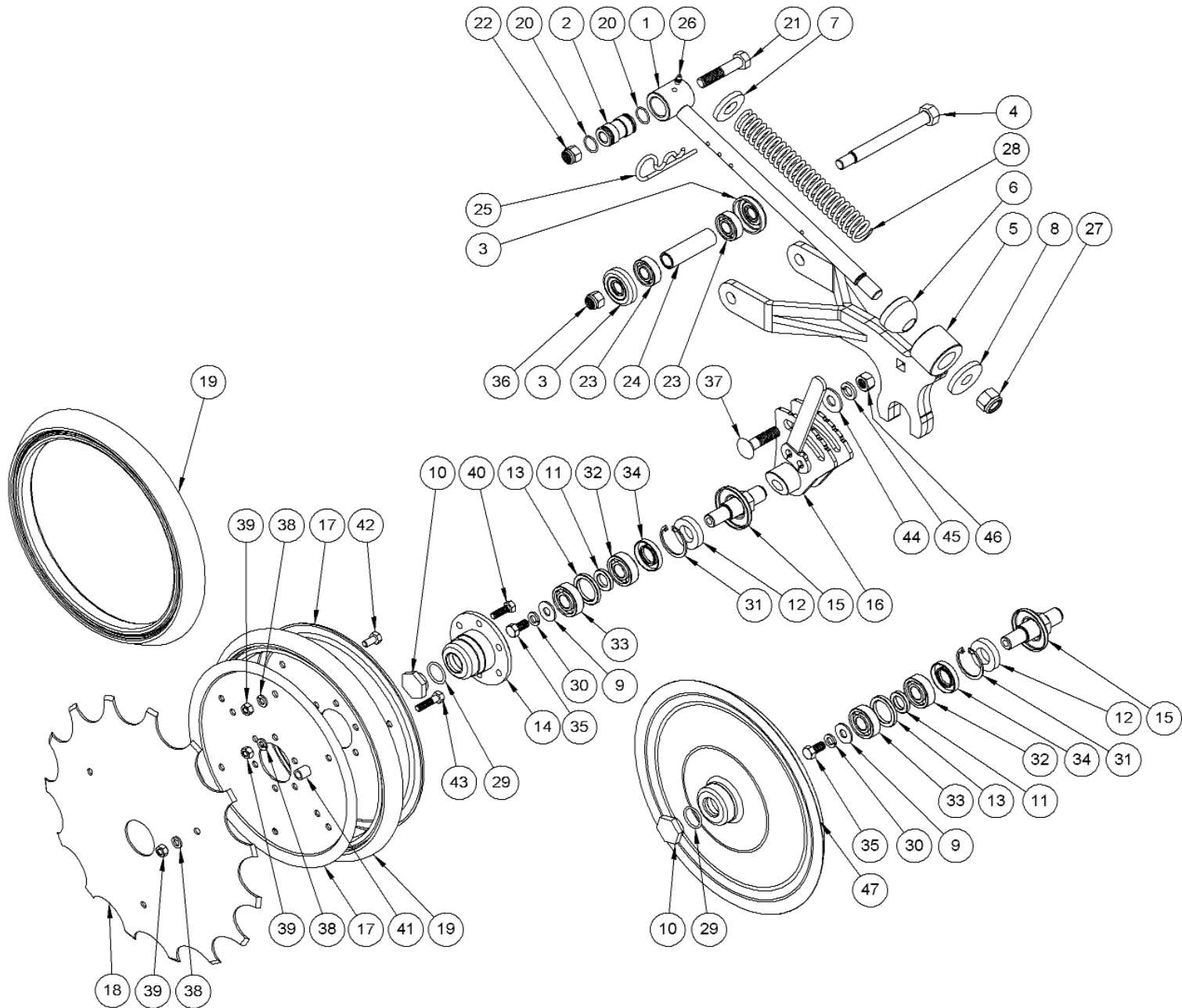
Item	Code Number	Description	Item	Code Number	Description
45	18.02.10.002	Lock washer 1/4" double chrome coated			
46	18.41.01.005	Pin w/ safety ring 5.9			
47	18.38.01.062	Spring - ejector axle holder			
48	18.38.01.095	Spring - for singulator wheel arm			
49	18.38.01.275	Spring - ejector wheel			
50	18.25.01.001	Split cotter pin 2 x 15			
51	18.60.01.012	Countersunk head screw 1/4" x 2"			
52	18.16.10.002	Hex nut BSW 1/4" double chrome coated			
53	18.15.01.005	Tank head, galvanized screw 1/4" x 5/8"			
54	18.15.01.006	Tank head, galvanized screw 1/4" x 3/4"			
55	18.15.01.010	Tank head, galvanized screw 1/4" x 1 1/2"			
56	18.03.10.051	Hex head bolt 1/2" x 1" double chrome coated			
57	18.02.10.006	Lock washer 1/2" double chrome coated			
58	18.01.10.002	Flat washer 1/4" double chrome coated			
59	18.38.01.121	Spring - seed tube			
60	18.33.01.033	Bearing 6203 2RS			
61	18.26.01.012	Spring pin 5 x 40			
62	18.03.10.056	Hex head bolt BSW 1/2" x 2 1/4" double chrome coated			
63	18.16.10.006	Hex nut BSW 1/2" double chrome coated			
64	18.03.10.052	Hex head bolt BSW 1/2" x 1 1/4" double chrome coated			
65	18.03.10.031	Hex head bolt BSW 3/8" x 1" double chrome coated			
66	18.02.10.004	Lock washer 3/8" double chrome coated			
67	18.16.10.004	Hex nut BSW 3/8" double chrome coated			
68	18.03.10.005	Hex head bolt BSW 1/4" x 5/8" bicrom.			
69	18.15.01.001	Tank head, galvanized screw 3/16" x 1/2"			
70	18.02.10.001	Lock washer - 3/16" double chrome coated			
71	18.16.10.001	Hex nut BSW - 3/16" double chrome coated			
72	16.65.103.01	Outlet tube holder - coarse crop fertilization			
73	15.65.834.00	Seeds/ fertilizer outlet tube			
74	16.65.107.01	Supporting bracket - fertilizer outlet tube			
75	18.03.10.017	Hex head bolt BSW 5/16" x 3/4" double chrome coated			
76	18.02.10.003	Lock washer - 5/16" double chrome coated			
77	18.16.10.003	Hex nut BSW - 5/16" double chrome coated			
78	18.01.10.004	Flat washer - 3/8" double chrome coated			



Gauge wheel for armed version of 525 to 700mm of separation

GAUGE WHEELS

Item	Code Number	Description	Item	Code Number	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	Pin - gauge wheel arm			
5	16.56.225.01	Shim washer - gauge wheel arm supplement			
6	16.56.226.01	Shim washer - gauge wheel arm supplement			
7	16.30.263.01	Hub housing			
8	16.30.264.10	Washer - gauge wheel hub shield			
9	16.30.123.01	Gauge wheel shaft			
10	16.30.269.00	Shield - gauge wheel hub			
11	16.30.261.00	Gauge wheel hub			
12	16.64.165.10	Flat half rim 2 7/8"			
13	16.30.645.10	Half rim			
14	18.36.03.004	Semi-pneumatic tire 2 7/8" x 15"			
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	18.34.01.171	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 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	18.03.10.051	Hex head bolt -1/2" x 1" double-chrome coated			
31	18.02.10.006	Lock washer -1/2" double-chrome coated			
32	18.36.03.009	Semi-pneumatic tire 3 1/2" x 15"			

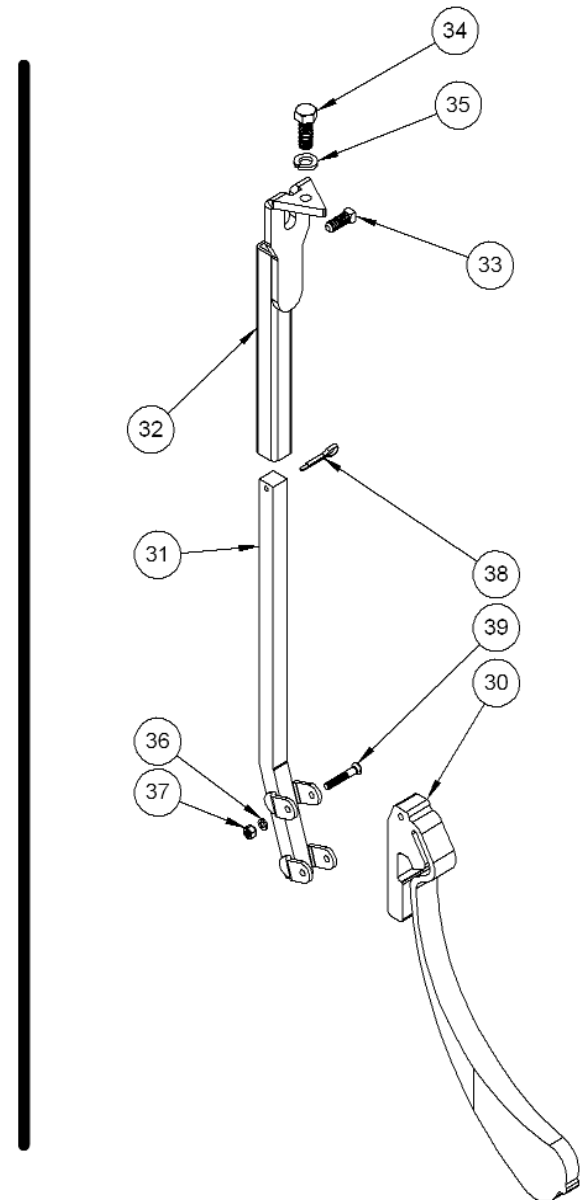
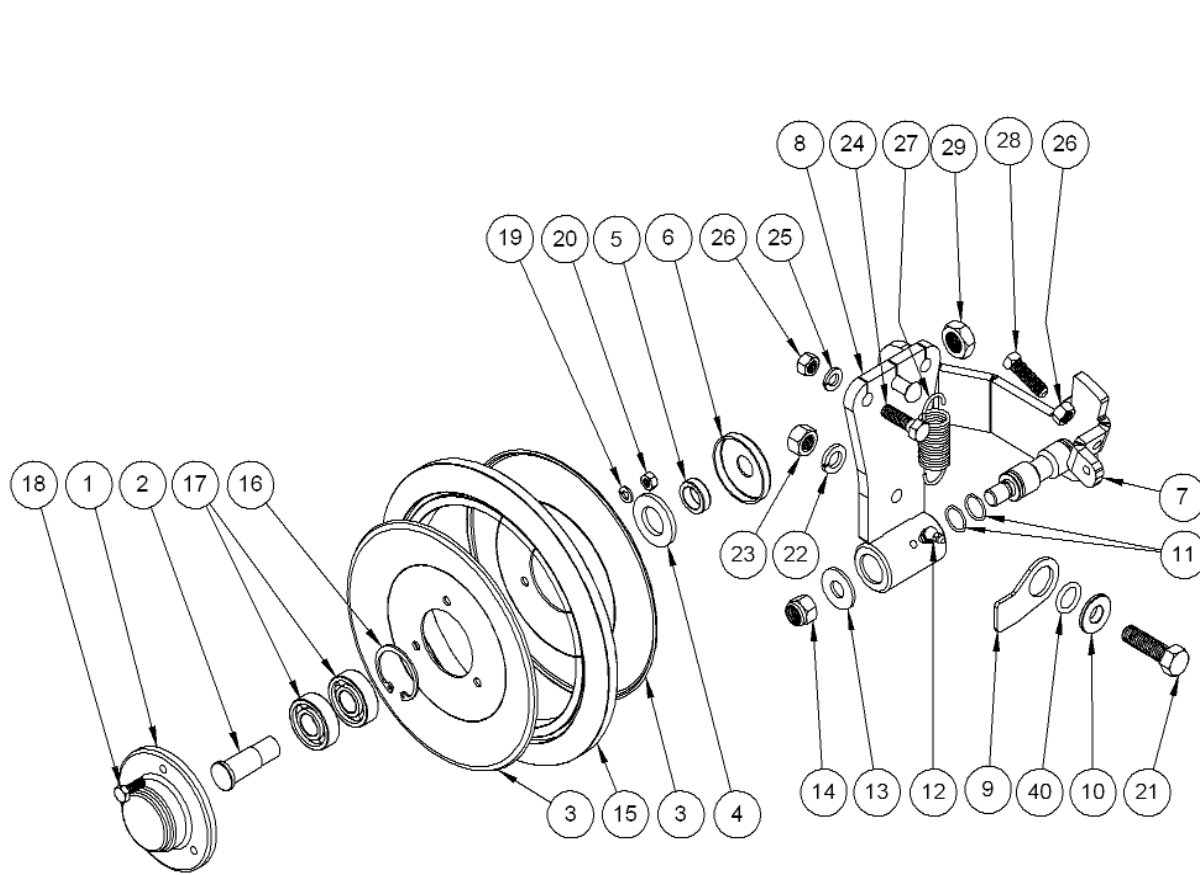


CLOSING WHEELS

Item	Code Number	Description	Item	Code Number	Description
1	16.65.055.01	Rod - closing wheel spring guide	32	18.33.01.033	Bearing 6203 2RS
2	16.65.059.00	Bushing - closing wheels spring pivot rod	33	18.33.01.001	Bearing 6203
3	16.65.060.01	Closing wheel housing and bearing seat	34	18.34.01.082	Grease seal DBH 5268 LX
4	16.65.061.01	Pin - closing wheel fork pivot	35	18.56.01.030	Hex head bolt SAE IZQ. 3/8" x 3/4"
5	16.65.054.00	Closing wheel fork	35	18.11.01.030	Hex head bolt SAE 3/8" x 3/4"
6	16.65.056.10	Spring seat	36	18.37.01.013	Lock nut 1/2"
7	16.65.057.01	Washer - upper spring stop-end	37	18.04.10.055	Bolt -round head, square body BSW 1/2" x 2" double-chrome coated
8	16.65.058.01	Washer - spring lower seat	38	18.02.10.003	Lock washer 5/16" double-chrome coated
9	16.10.295.00	Washer - bearing holder	39	18.16.10.003	Hex nut BSW 5/16" double-chrome coated
10	16.10.300.00	Left hub shield	40	18.03.10.190	Hex head bolt BSW 5/16" x 7/8" double-chrome coated
10	16.10.301.00	Right hub shield	41	16.30.220.01	Rear disks spacer
11	16.30.205.00	Spacer - hub bearing	42	18.03.10.016	Hex head bolt BSW 5/16" x 5/8" double-chrome coated
12	16.30.270.10	Washer - wheel filter	43	18.03.10.019	Hex head bolt BSW 5/16" x 1 1/4" double-chrome coated
13	16.30.303.00	Bearing large spacer	44	18.01.10.006	Flat washer 1/2" double-chrome coated
14	16.33.323.00	Left hub - closing wheel	45	18.02.10.006	Lock washer 1/2" double-chrome coated
14	16.33.320.00	Right hub - closing wheel	46	18.16.10.006	Hex nut BSW 1/2" double-chrome coated
15	16.65.051.00	Left shaft w/ closing wheel shield	47	16.65.279.00	Iron-made left closing wheel
15	16.65.052.00	Right shaft w/ closing wheel shield	47	16.65.280.00	Iron-made right closing wheel
16	16.65.053.00	Adjustment plate - closing wheels shaft holder			
17	16.30.201.10	Closing wheel half rim			
18	16.30.219.10	14" concave disk - rear wheels			
19	18.36.01.041	Tire - 1" x 12" semi-pneumatic			
19	18.36.01.079	Semi- neumatic tire 1"x12" w/trapezoid band			
20	18.34.02.010	O`ring 2-020			
21	18.03.10.058	Hex head bolt BSW 1/2" x 2 3/4" double-chrome coated			
22	18.37.01.013	Lock nut BSW 1/2"			
23	18.33.01.065	Bearing 6202 2RS			
24	16.65.207.00	Spacer bushing - closing wheels bearing			
25	18.27.01.003	Retaining 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	Retaining ring 2-119			
30	18.02.01.004	lock washer 3/8"			
31	18.32.01.010	Seeger ring 40.l			

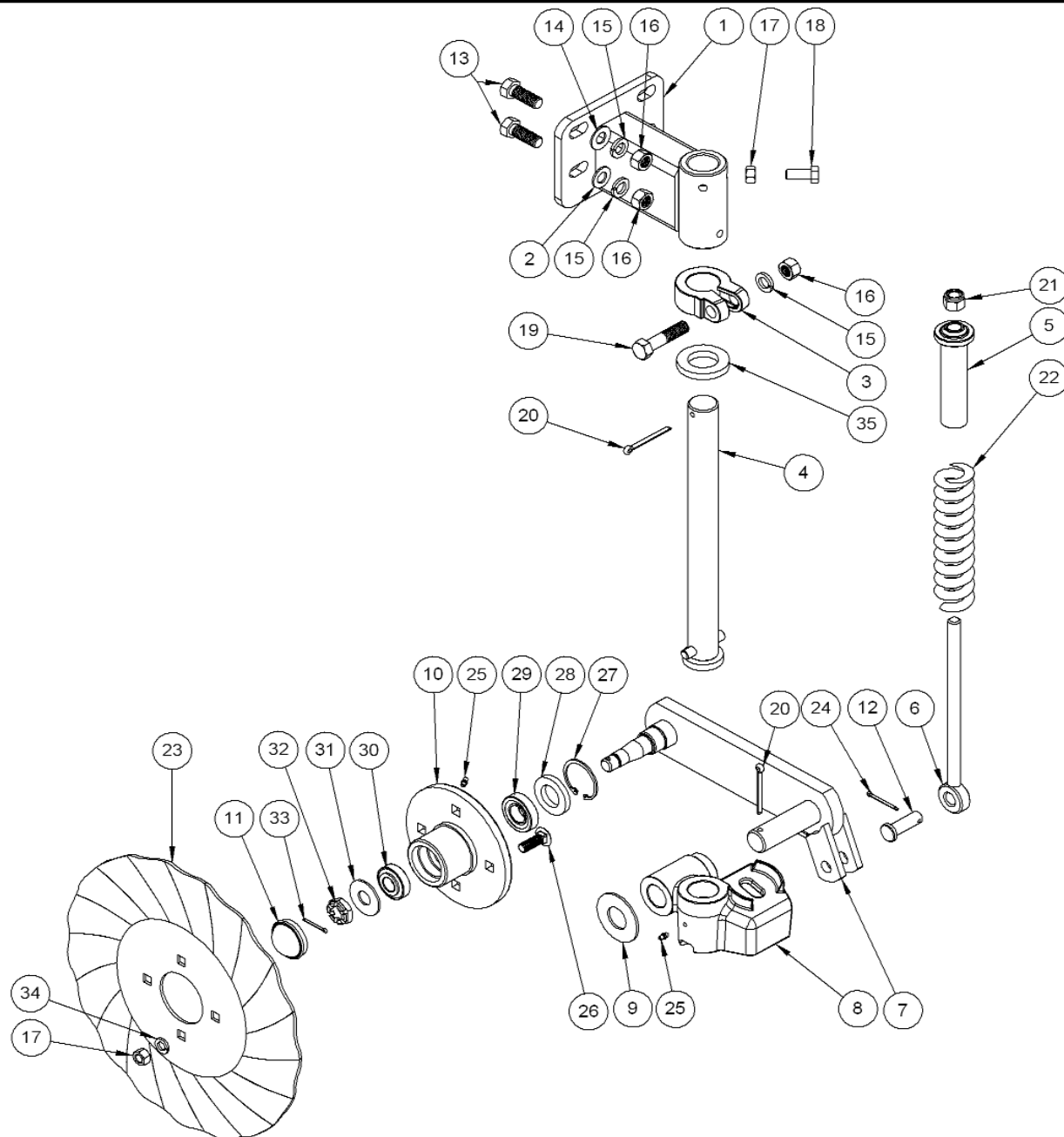
PICTURE N° 17 (Bis)

PRESS WHEEL AND TAIL-TYPE SEED FIRMER



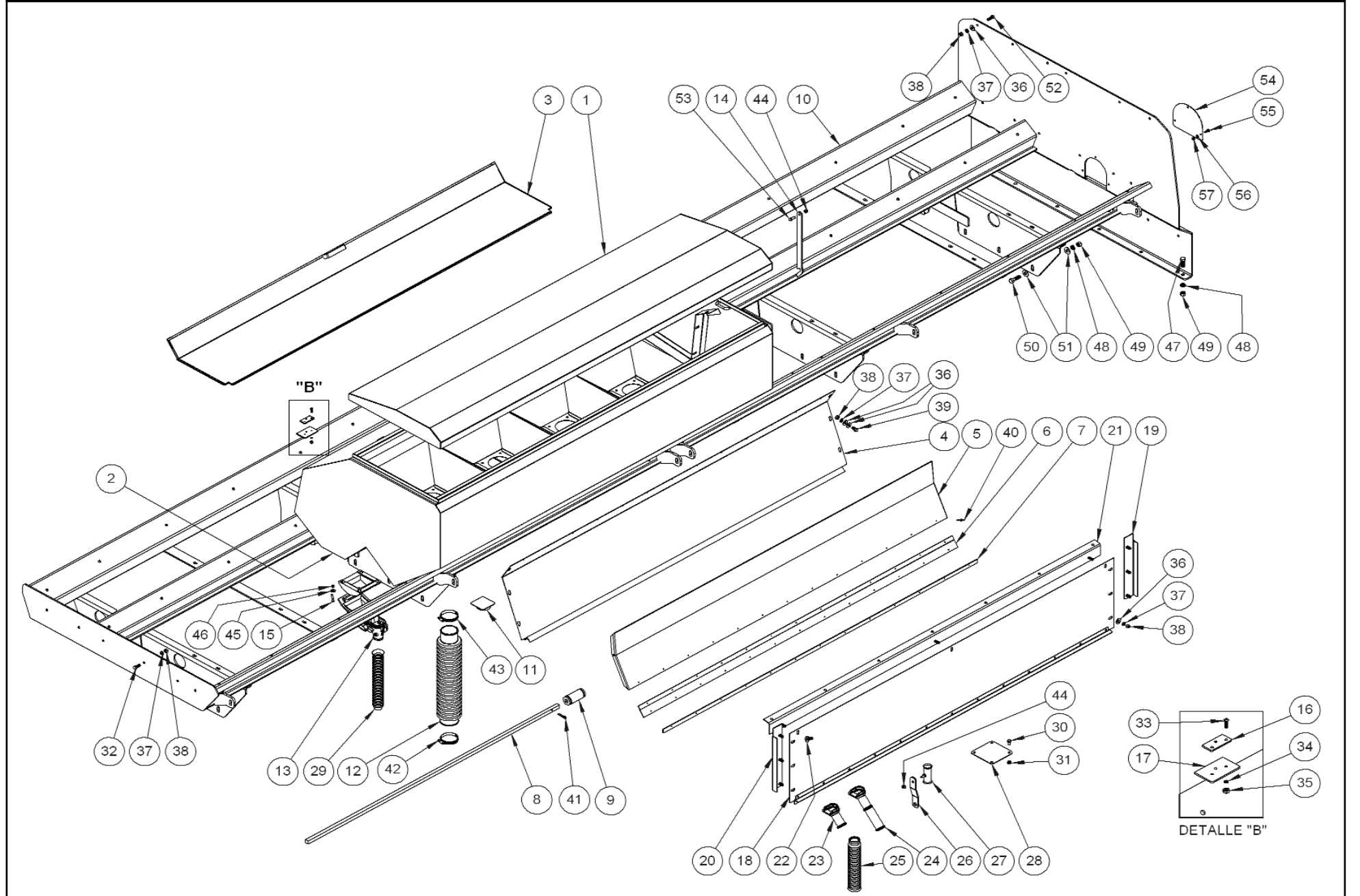
PRESS WHEEL AND TAIL-TYPE SEED FIRMER

Item	Code Number	Description	Item	Code Number	Description
1	16.65.062.00	Hub - seed press wheel	35	18.02.10.004	Lock washer 3/8" double-chrome coated
2	16.65.063.00	Axle -press wheel hub	36	18.02.10.001	Lock washer 3/16" double-chrome coated
3	16.65.067.10	Half rim for 1" x 9 1/2" tire	37	18.16.10.001	Hex nut - BSW 3/16" double-chrome coated
4	16.65.066.10	Thin felt washer	38	18.25.01.003	Split cotter pin 3 x 25
5	16.65.064.01	Bushing - bearing stop-end	39	18.15.01.175	Tank head, galvanized screw 3/16" x 1 1/2"
6	16.65.065.01	Seed firmer hub shield	40	18.34.02.013	O`ring 2-209
7	16.65.068.00	Seed firmer holding arm			
8	16.65.069.00	Arm holder			
9	16.65.415.01	Strap - seed firmer lock			
10	16.65.414.01	Bushing - lock guide			
11	18.34.02.009	O`ring 2-018			
12	18.30.01.001	45° 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	18.03.10.200	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			
31	16.65.075.00	Sliding bar - tail type seed firmer anchor			
32	16.65.337.00	Seed firmer fastening bar			
33	18.06.10.018	Square head bolt -BSW 5/16" x 1" double-chrome			
34	18.03.10.031	Hex head bolt BSW 3/8" x 1" double-chrome coated			



SELF ALIGNING COULTER

Item	Code Number	Description	Item	Code Number	Description
1	16.64.599.00	Bracket -no-till coulter rod support	33	18.25.01.003	Split cotter pin 3 x 30
2	16.64.572.01	Washer	34	18.02.10.006	Lock washer 1/2" double-chrome coated
3	16.52.116.00	Flange - rod upper end	35	16.64.602.01	Shim washer - coulter flange
4	16.64.600.01	Rod - no-till coulter support			
5	16.30.636.00	Coulter spring seat			
6	16.52.117.00	Eye-rod - spring holder and guide			
7	16.65.236.00	Right coulter arm			
7	16.65.237.00	Left coulter arm			
8	16.52.119.00	Rod and arm left support			
8	16.52.122.00	Rod and arm right support			
9	16.65.128.00	Shim washer			
10	16.33.808.00	Coulter hub			
11	16.26.074.00	Hub shield			
12	16.52.118.00	Pin - spring guide lock			
13	18.03.10.076	Hex head bolt BSW 5/8" x 1 3/4" double-chrome coated			
14	18.01.10.008	Flat washer 5/8" double-chrome coated			
15	18.02.10.008	Lock washer 5/8" double-chrome coated			
16	18.16.10.008	Hex nut BSW 5/8" double-chrome coated			
17	18.16.10.006	Hex nut BSW 1/2" double-chrome coated			
18	18.06.10.052	Square head bolt BSW 1/2"x1 1/4" double-chrome coated			
19	18.03.10.080	Hex head bolt BSW 5/8" x 2 3/4" double-chrome coated			
20	18.25.01.020	Split cotter pin 6 x 60			
21	18.37.01.012	Lock nut 5/8"			
22	18.38.01.189	Spring - no-till coulter			
23	18.35.01.092	17" No-till coulter - 4mm thick			
24	18.25.01.007	Split cotter pin 4 x 40			
25	18.29.01.001	Straight grease nipple 1/4" NF			
26	18.04.10.052	Bolt, round head square neck BSW 1/2"x1 1/4"bic.			
27	18.32.01.043	Seeger ring 55.l			
28	18.34.01.109	Grease seal DBH 5171			
29	18.33.01.012	Bearing 30205			
30	18.33.01.011	Bearing 30204			
31	18.01.01.009	Flat washer 3/4"			
32	18.21.01.009	Flat castle nut SAE 3/4"			

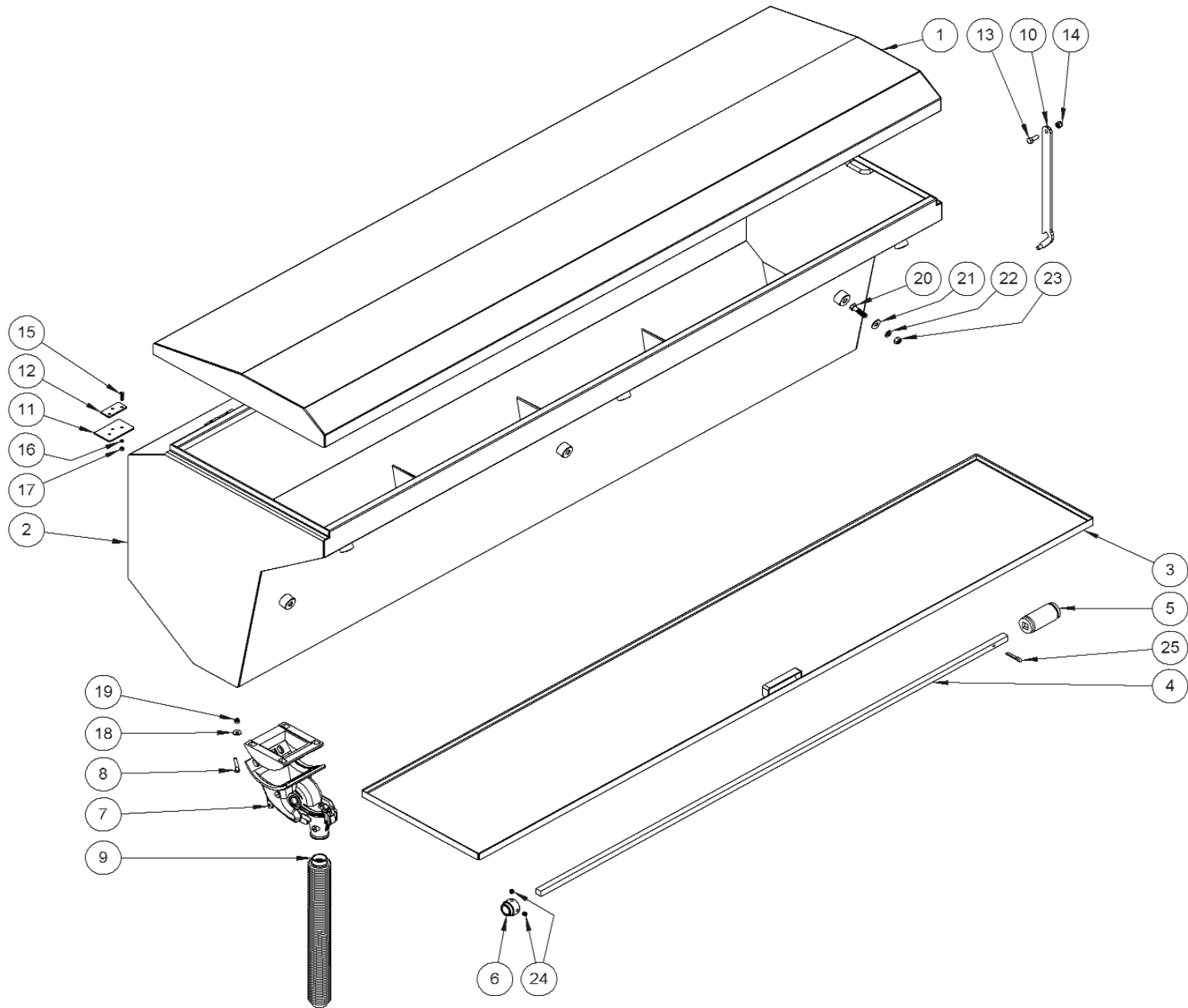


SEED AND FERTILIZER BOX SUPPORTING FRAME

Item	Code Number	Description	Item	Code Number	Description
1	16.64.485.00	Box lid - 3 outlets at 500mm	7	16.64.204.00	Seal strip holder - box 5 outlets at 500
1	16.64.232.00	Box lid - 4 outlets at 400mm	8	16.64.429.01	Metering system shaft for 10 rows at 400mm
1	16.64.256.00	Box lid - 4 outlets at 500mm	8	16.64.449.01	Metering system shaft for 10 rows at 525mm
1	16.64.108.00	Box lid - 5 outlets at 400mm	8	16.64.450.01	Metering system shaft for 14 rows at 525mm
1	16.64.200.00	Box lid - 5 outlets at 500mm	8	16.64.246.01	Exterior metering system shaft for 16 rows at 400mm
2	16.64.484.00	Seed/Fertilizer box - 3 outlets at 500mm	8	16.64.257.01	Interior metering system shaft for 16 rows at 400mm
2	16.64.231.00	Seed/Fertilizer box - 4 outlets at 400mm	8	16.64.258.01	Exterior metering system shaft for 16 rows at 525mm
2	16.64.255.00	Seed/Fertilizer box - 4 outlets at 500mm	8	16.64.259.01	Interior metering system shaft for 16 rows at 525mm
2	16.64.106.00	Seed/Fertilizer box - 5 outlets at 400mm	8	16.64.130.01	Metering system shaft for 20 rows at 400mm
2	16.64.199.00	Seed/Fertilizer box - 5 outlets at 500mm	8	16.64.208.01	Metering system shaft for 20 rows 525mm
3	16.64.486.00	Grillage - seed/fertilizer box 3 outlets at 500mm	8	16.64.361.01	Exterior metering system shaft for 24 rows 400mm
3	16.64.237.00	Grillage - seed/fertilizer box 4 outlets at 400mm	8	16.64.360.01	Interior metering system shaft for 24 rows at 400mm
3	16.64.264.00	Grillage - seed/fertilizer box 4 outlets at 500mm	8	16.64.346.01	Ext/interior metering system shaft for 26 rows at 525mm
3	16.64.113.00	Grillage - seed/fertilizer box 5 outlets at 400mm	8	16.64.347.01	Metering system countershaft for 26 rows at 525mm
3	16.64.201.00	Grillage - seed/fertilizer box 5 outlets at 500mm	8	16.64.372.01	Exterior metering system shaft for 28 rows at 400mm
4	16.64.487.00	Separating plate - seed/fertilizer box 3 outlets at 500mm	8	16.64.371.01	Interior metering system shaft for 28 rows at 400mm
4	16.64.233.00	Separating plate - seed/fertilizer box 4 outlets at 400mm	9	16.64.253.01	Bushing - metering system shaft guide
4	16.64.260.00	Separating plate - seed/fertilizer box 4 outlets at 500mm	10	16.64.428.00	Box box supporting frame for 10 rows at 400mm
4	16.64.109.00	Separating plate - seed/fertilizer 5 outlets at 400mm	10	16.64.451.00	Left box supporting frame for 10 rows at 525mm
4	16.64.202.00	Separating plate - seed/fertilizer box 5 outlets at 500mm	10	16.64.452.00	Right box supporting frame for 10 rows at 525mm
5	16.64.488.00	Inner baffe - box 3 outlets at 500mm	10	16.64.468.00	Left box supporting frame for 14 rows at 525mm
5	16.64.234.00	Inner baffe - box 4 outlets at 400mm	10	16.64.469.00	Right box supporting frame for 14 rows at 525mm
5	16.64.261.00	Inner baffe - box 4 outlets at 500mm	10	16.64.239.00	Left box supporting frame for 16 rows at 400mm
5	16.64.110.00	Inner baffe - box 5 outlets at 400mm	10	16.64.240.00	Right box supporting frame for 16 rows at 400mm
5	16.64.203.00	Inner baffe - box 5 outlets at 500mm	10	16.64.265.00	Left box supporting frame for 16 rows at 525mm
6	16.64.490.00	Seal strip - box baffle linkage 3 outlets at 500mm	10	16.64.266.00	Right box supporting frame for 16 rows at 525mm
6	16.64.236.00	Seal strip - box baffle linkage 4 outlets at 400mm	10	16.64.104.00	Left box supporting frame for 20 rows at 400mm
6	16.64.263.00	Seal strip - box baffle linkage 4 outlets at 500mm	10	16.64.105.00	Right box supporting frame for 20 rows at 400mm
6	16.64.112.00	Seal strip - box baffle linkage 5 outlets at 400mm	10	16.64.206.00	Left box supporting frame for 20 rows at 525mm
6	16.64.205.00	Seal strip - box baffle linkage 5 outlets at 500mm	10	16.64.207.00	Right box supporting frame for 20 rows at 525mm
7	16.64.489.00	Seal strip holder - box 3 outlets at 500	10	16.64.358.00	Left box supporting frame for 24 rows at 400mm
7	16.64.235.00	Seal strip holder - box 4 outlets at 400	10	16.64.359.00	Right box supporting frame for 24 rows at 400mm
7	16.64.262.00	Seal strip holder - box 4 outlets at 500	10	16.64.336.00	Left external end -box supporting frame for 26 rows at 525mm
7	16.64.111.00	Seal strip holder - box 5 outlets at 400	10	16.64.337.00	Right external end -box supporting frame for 26 rows at 525mm

SEED AND FERTILIZER BOX SUPPORTING FRAME

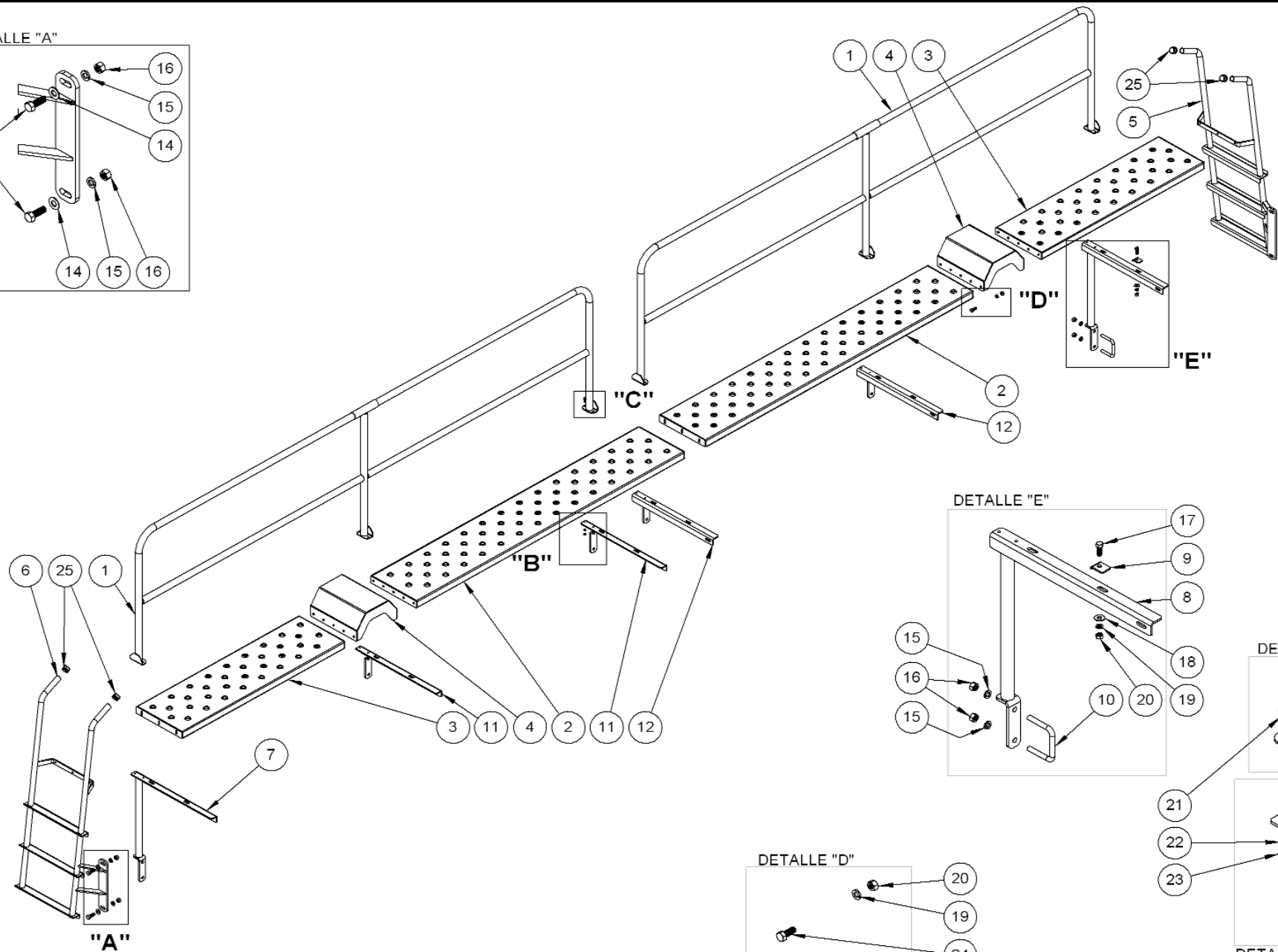
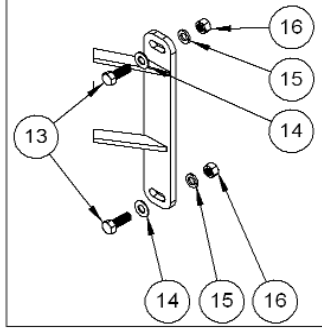
Item	Code Number	Description	Item	Code Number	Description
10	16.64.338.00	Left box supporting frame - center section for 26 rows at 525mm	30	18.03.10.016	Hex head bolt- BSW 5/16" x 5/8" double-chrome coated
10	16.64.339.00	Right box supporting frame - center section for 26 rows at 525mm	31	18.37.01.014	Lock washer - 5/16" double-chrome coated
10	16.64.340.00	Left internal end -box supporting framefor 26 rows at 525mm	32	18.05.10.031	Hex nut - BSW 5/16" double-chrome coated
10	16.64.341.00	Right internal end -box supporting frame for 26 rows at 525mm	33	18.15.01.002	Tank head galvanized screw - 3/16" x 3/4"
10	16.64.369.00	Left box supporting frame for 28 rows at 400mm	34	18.02.10.001	Lock washer 3/16"
10	16.64.370.00	Right box supporting frame for 28 rows at 400mm	35	18.16.10.001	Hex nut - BSW 3/16"
11	16.64.379.00	Lid - seeds outlet	36	18.01.10.004	Flat washer - 3/8" double-chrome coated
12	16.33.456.10	Seed tube - coarse grains outlet	37	18.02.10.004	Lock nut - 3/8" double-chrome coated
13	15.64.927.10	Meter w/ flat adapter	38	18.16.10.004	Hex nut - BSW 3/8" double-chrome coated
14	16.64.116.01	Arm - lid lock	39	18.03.10.030	Hex head bolt - BSW 3/8" x 3/4" double-chrome coated
15	16.64.448.10	Bolt - meter anchor	40	18.53.01.009	Pop rivet - 4 x 16
16	16.64.283.01	Plate - hinge seat	41	18.25.10.011	Split Cotter pin - 5 x 40
17	16.64.284.01	Hinge strengthener	42	18.54.01.021	Zip clamp - 60/75
18	16.64.493.00	Single-product baffle - 3 outlets at 500mm	43	18.54.01.014	Zip clamp - 70/90
18	16.64.308.00	Single-product baffle - 4 outlets at 400mm	44	18.37.01.014	Lock washer 5/16"
18	16.64.309.00	Single-product baffle - 4 outlets at 500mm	45	18.01.10.002	Flat washer - 1/4" double-chrome coated
18	16.64.310.00	Single-product baffle - 5 outlets at 400mm	46	18.37.01.010	Lock nut - 1/4"
18	16.64.311.00	Single-product baffle - 5 outlets at 500mm	47	18.03.10.053	Hex head bolt - BSW 1/2" x 1 1/4" double-chrome coated
19	16.64.314.00	Left seat - single-product baffle	48	18.02.10.006	Lock washer -1/2" double-chrome coated
20	16.64.315.00	Right seat - single-product baffle	49	18.16.10.006	Hex nut - BSW 1/2"
21	16.64.494.00	Baffle inside seat - 3 outlets at 500	50	18.03.10.054	Hex head bolt - BSW 1/2" x 1 3/4" double-chrome coated
21	16.64.395.00	Baffle inside seat - 4 outlets at 400	51	18.01.10.006	Flat washer - 1/2" double-chrome coated
21	16.64.396.00	Baffle inside seat - 4 outlets at 500	52	18.03.10.031	Hex head bolt - BSW 3/8" x 1" double-chrome coated
21	16.64.397.00	Baffle inside seat - 5 outlets at 400	53	18.03.10.190	Hex head bolt - BSW 5/16" x 7/8" double-chrome coated
21	16.64.398.00	Baffle inside seat - outlets.at 500	54	16.64.603.00	Box supporting frame cover
22	16.17.160.10	Wing nut	55	18.03.10.006	Hex head bolt BSW 1/4" x 3/4" double-chrome coated
23	16.53.109.10	Right short tube - fertilizer outlet	56	18.02.10.002	Lock washer 1/4" double-chrome coated
23	16.53.134.10	Left short tube - fertilizer outlet	57	18.16.10.002	Hex nut BSW 1/4"
24	16.54.357.10	45° fertilizer outlet extension			
25	16.10.140.10	Seeds outlet tube			
26	16.64.318.01	Hoses linkage holding arm			
27	16.56.055.00	Fertilizer hoses linkage			
28	16.64.324.00	Lid -single fertilization outlet			
29	16.10.271.10	Fertilizer outlet tube			



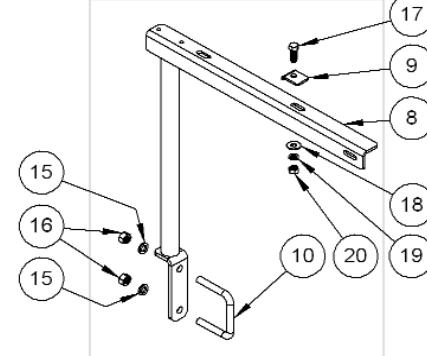
FRONT FERTILIZER BOX

Item	CodeNumber	Description	Item	Code Number	Description
1	16.64.485.00	Box lid - 3 outlets at 500mm	9	16.33.378.10	Seeds/Fertilizer discharge tube
1	16.64.232.00	Box lid - 4 outlets at 400mm	10	16.64.116.01	Lid lock
1	16.64.256.00	Box lid - 4 outlets at 500mm	11	16.64.284.01	Hinge anchor inner strengthener
1	16.64.108.00	Box lid - 5 outlets at 400mm	12	16.64.283.01	Hinge supplement
1	16.64.200.00	Box lid - 5 outlets at 500mm	13	18.03.10.190	Hex head bolt - BSW 5/16" x 7/8" double-chrome coated
2	16.64.491.00	Fertilizer box - 3 outlets at 500mm	14	18.37.01.014	Lock nut - 5/16"
2	16.64.244.00	Fertilizer box - 4 outlets at 400mm	15	18.15.01.002	Tank head galvanized screw 3/16" x 3/4"
2	16.64.270.00	Fertilizer box - 4 outlets at 500mm	16	18.02.10.001	Lock washer - 3/16"
2	16.64.128.00	Fertilizer box - 5 outlets at 400mm	17	18.16.10.001	Hex nut - BSW 3/16"
2	16.64.213.00	Fertilizer box - 5 outlets at 500mm	18	18.01.10.002	Flat washer - 1/4"
3	16.64.492.00	Grillage - seed/fertilizer box - 3 outlets at 500mm	19	18.37.01.010	Lock nut - 1/4"
3	16.64.245.00	Grillage - seed/fertilizer box - 4 outlets at 400mm	20	18.03.10.033	Hex head bolt - BSW 3/8" x 1 1/2" double-chrome coated
3	16.64.271.00	Grillage - seed/fertilizer box - 4 outlets at 500mm	21	18.01.10.004	Flat washer 3/8" double-chrome coated
3	16.64.129.00	Grillage - seed/fertilizer box - 5 outlets at 400mm	22	18.02.10.004	Lock washer - 3/8" double-chrome coated
3	16.64.214.00	Grillage - seed/fertilizer box - 5 outlets at 500mm	23	18.16.10.004	Hex nut - BSW 3/8" double-chrome coated
4	16.64.429.01	Meter shaft for 10 rows at 400mm	24	18.09.02.019	Allen screw, embedded head 5/16" x 3/8"
4	16.64.449.01	Meter shaft for 10 rows at 525mm	25	18.25.10.011	Split Cotter pin - 5 x 40
4	16.64.450.01	Meter shaft for 14 rows at 525mm			
4	16.64.246.01	Meter shaft - exterior, for 16 rows at 400mm			
4	16.64.257.01	Meter shaft - interior, for 16 rows at 400mm			
4	16.64.258.01	Meter shaft - exterior, for 16 rows at 525mm			
4	16.64.259.01	Meter shaft - interior, for 16 rows at 525mm			
4	16.64.130.01	Meter shaft for 20 rows at 400mm			
4	16.64.208.01	Meter shaft for 20 rows at 525mm			
4	16.64.361.01	Meter shaft - exterior, for 24 rows at 400mm			
4	16.64.360.01	Meter shaft - interior, for 24 rows at 400mm			
4	16.64.346.01	Meter shaft - exterior and interior, for 26 rows at 525mm			
4	16.64.347.01	Meter countershaft for 26 rows at 525mm			
4	16.64.372.01	Meter shaft - exterior, for 28 rows at 400mm			
4	16.64.371.01	Meter shaft - interior, for 28 rows at 400mm			
5	16.64.253.01	Bushing - meter shaft			
6	16.64.307.01	Drive shaft end			
7	15.64.927.10	Meter W/ flat adaptor			
8	16.64.448.10	Bolt - meter anchor			

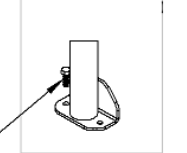
DETALLE "A"



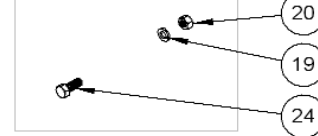
DETALLE "E"



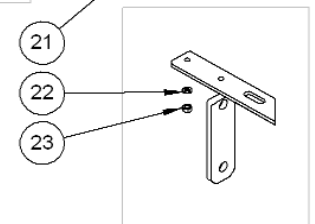
DETALLE "C"



DETALLE "D"

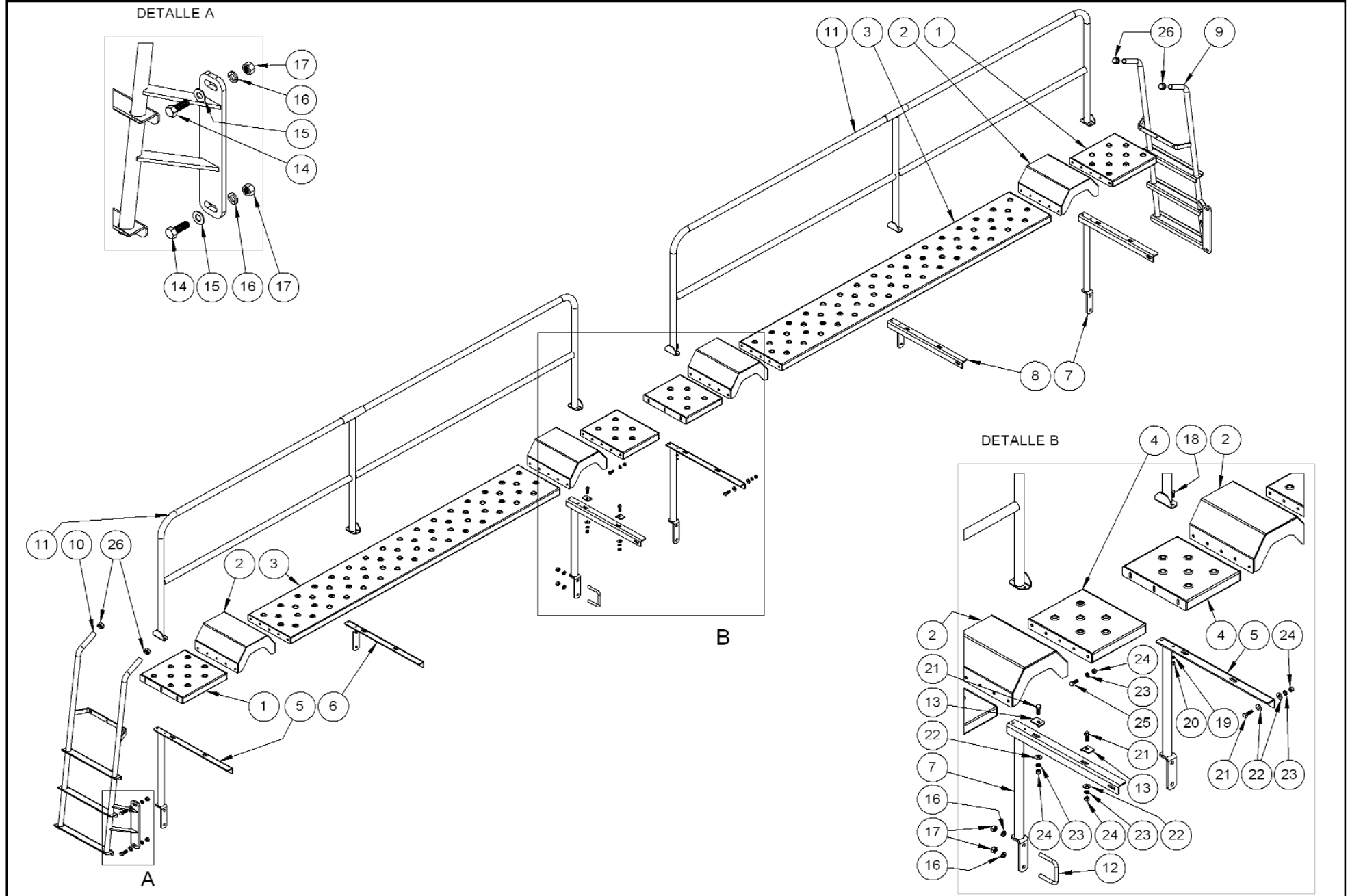


DETALLE "B"



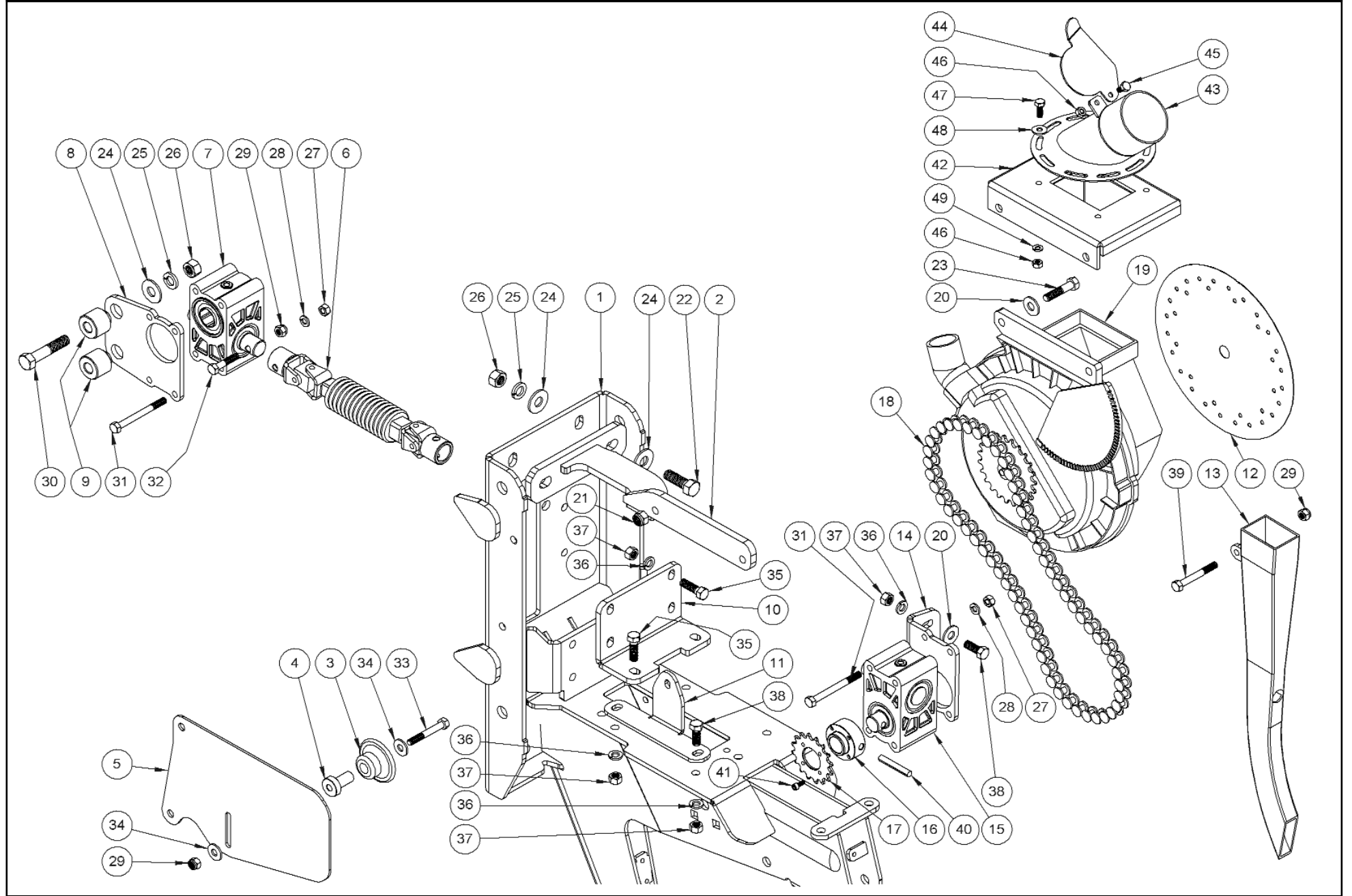
WALKBOARDS, HANDRAILS AND LADDERS - 1 FRAME MACHINE

Item	Code Number	Description	Item	Code Number	Description
1	16.64.431.00	Walkboard handrail - 10 rows at 400mm	23	18.16.10.003	Hex nut - BSW 5/16" double-chrome coated
1	16.64.438.00	Walkboard handrail - 10 rows at 525mm	24	18.03.10.052	Hex head bolt - BSW 1/2" x 1 1/4" double-chrome coated
1	16.64.439.00	Walkboard handrail - 14 rows at 525mm	25	16.54.358.10	Ladder ends caps
1	16.64.243.00	Walkboard handrail - 16 rows at 400mm			
1	16.64.269.00	Walkboard handrail - 16 rows at 525mm			
2	16.64.430.00	Center walkboard - 10 rows at 400mm			
2	16.64.436.00	Center walkboard - 10 rows at 525mm			
2	16.64.440.00	Center walkboard - 14 rows at 525mm			
2	16.64.242.00	Center walkboard - 16 rows at 400mm			
2	16.64.268.00	Center walkboard - 16 rows at 400mm			
3	16.64.375.00	Outer walkboard - 10 y 28 rows at 400mm			
3	16.64.437.00	Outer walkboard - 10 rows at 525mm			
3	16.64.441.00	Outer walkboard - 14 rows at 525mm			
3	16.64.241.00	Outer walkboard - 16 rows at 400mm			
3	16.64.267.00	Outer walkboard - 16 rows at 525mm			
4	16.64.121.00	Bridge: walkboards link			
5	16.64.127.00	Left ladder			
6	16.64.126.00	Right ladder			
7	16.64.124.00	Right supporting bar for walkboard and handrail			
8	16.64.125.00	Left supporting bar for walkboard and handrail			
9	16.64.075.01	Walkboard lock			
10	16.64.056.01	U-bolt - mainframe anchor			
11	16.64.123.00	Right center supporting bar for walkboard and handrail			
12	16.64.122.00	Left center supporting bar for walkboard and handrail			
13	18.03.10.076	Hex head bolt - BSW 5/8" x 1 3/4" double-chrome coated			
14	18.01.10.008	Flat washer - 5/8" double-chrome coated			
15	18.02.10.008	Lock washer - 5/8" double-chrome coated			
16	18.16.10.008	Hex nut - BSW 5/8" double-chrome coated			
17	18.03.10.053	Hex head bolt - BSW 1/2" x 1 1/2" double-chrome coated			
18	18.01.10.006	Flat washer -1/2" double-chrome coated			
19	18.02.10.006	Lock washer -1/2" double-chrome coated			
20	18.16.10.006	Hex nut - BSW 1/2" double-chrome coated			
21	18.03.10.018	Hex head bolt - BSW 5/16" x 1" double-chrome coated			
22	18.02.10.003	Lock washer - 5/16" double-chrome coated			



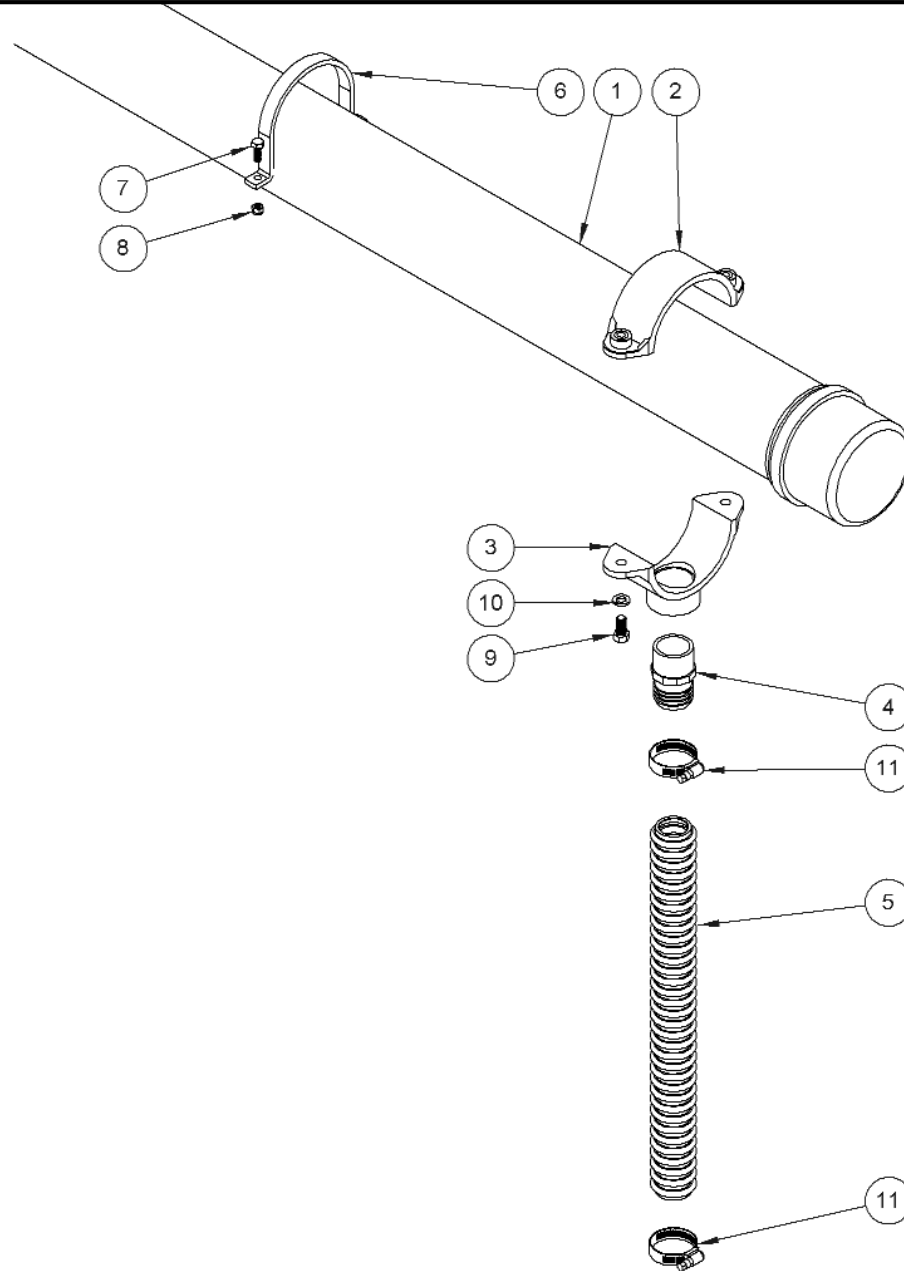
WALKBOARDS, HANDRAILS AND LADDERS - 2-FRAME MACHINE

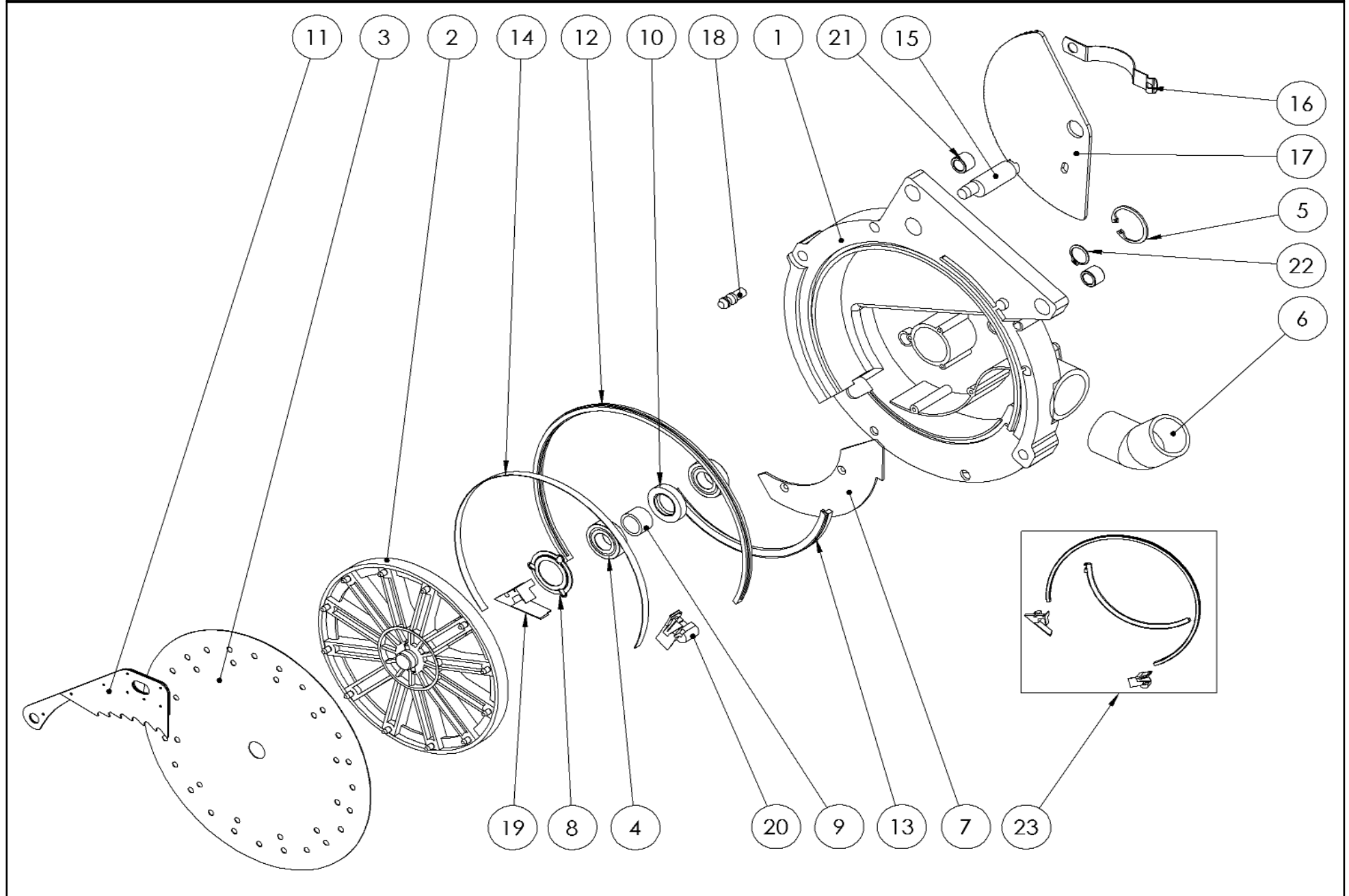
Item	Code Number	Description	Item	CodeNumber	Description
1	16.64.120.00	Outer walkboard - 20 rows at 400mm	24	18.16.10.006	Hex nut - BSW 1/2" double-chrome coated
1	16.64.212.00	Outer walkboard - 20 rows at 525mm	25	18.03.10.052	Hex head bolt - BSW 1/2" x 1 1/4" double-chrome coated
1	16.64.363.00	Outer walkboard - 24 rows at 400mm	26	16.54.358.10	Ladder ends caps
1	16.64.345.00	Outer walkboard - 26 rows at 525mm			
1	16.64.375.00	Outer walkboard - 28 rows at 400mm			
2	16.64.121.00	Bridge - walkboards link			
3	16.64.118.00	Center walkboard - 20 and 24 rows at 400mm			
3	16.64.210.00	Center walkboard - 20 rows at 525mm			
3	16.64.344.00	Center walkboard - 26 rows at 525mm			
3	16.64.374.00	Center walkboard - 28 rows at 400mm			
4	16.64.119.00	Inner walkboard - 2 modules			
5	16.64.124.00	Right supporting bar for walkboard and handrail			
6	16.64.123.00	Right center supporting bar for walkboard and handrail			
7	16.64.125.00	Left supporting bar for walkboard and handrail			
8	16.64.122.00	Left center supporting bar for walkboard and handrail			
9	16.64.127.00	Left ladder			
10	16.64.126.00	Right ladder			
11	16.64.117.00	Walkboard handrail - 20 rows at 400mm			
11	16.64.209.00	Walkboard handrail - 20 rows at 525mm			
11	16.64.362.00	Walkboard handrail - 24 rows at 400mm			
11	16.64.343.00	Walkboard handrail - 26 rows at 525mm			
11	16.64.373.00	Walkboard handrail - 28 rows at 400mm			
12	16.64.056.01	U-bolt - mainframe anchor			
13	16.64.075.01	Walkboard lock			
14	18.03.10.076	Hex head bolt - BSW 5/8" x 1 3/4" double-chrome coated			
15	18.01.10.008	Flat washer - 5/8" double-chrome coated			
16	18.02.10.008	Lock washer - 5/8" double-chrome coated			
17	18.16.10.008	Hex nut - BSW 5/8" double-chrome coated			
18	18.03.10.018	Hex head bolt - BSW 5/16" x 1" double-chrome coated			
19	18.02.10.003	Lock washer - 5/16" double-chrome coated			
20	18.16.10.003	Hex nut - BSW 5/16" double-chrome coated			
21	18.03.10.053	Hex head bolt - BSW 1/2" x 1 1/2" double-chrome coated			
22	18.01.10.006	Flat washer -1/2" double-chrome coated			
23	18.02.10.006	Lock washer -1/2" double-chrome coated			

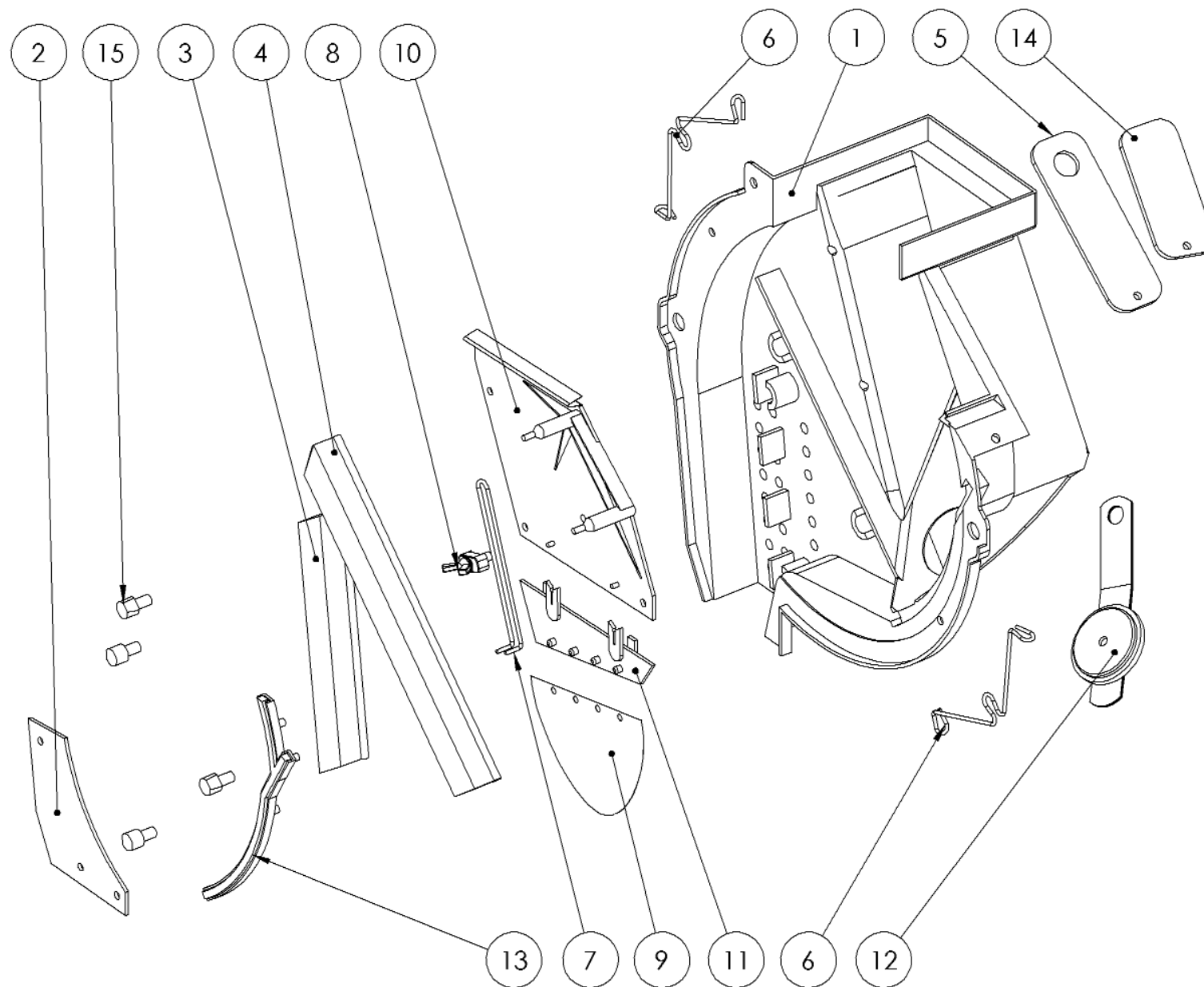


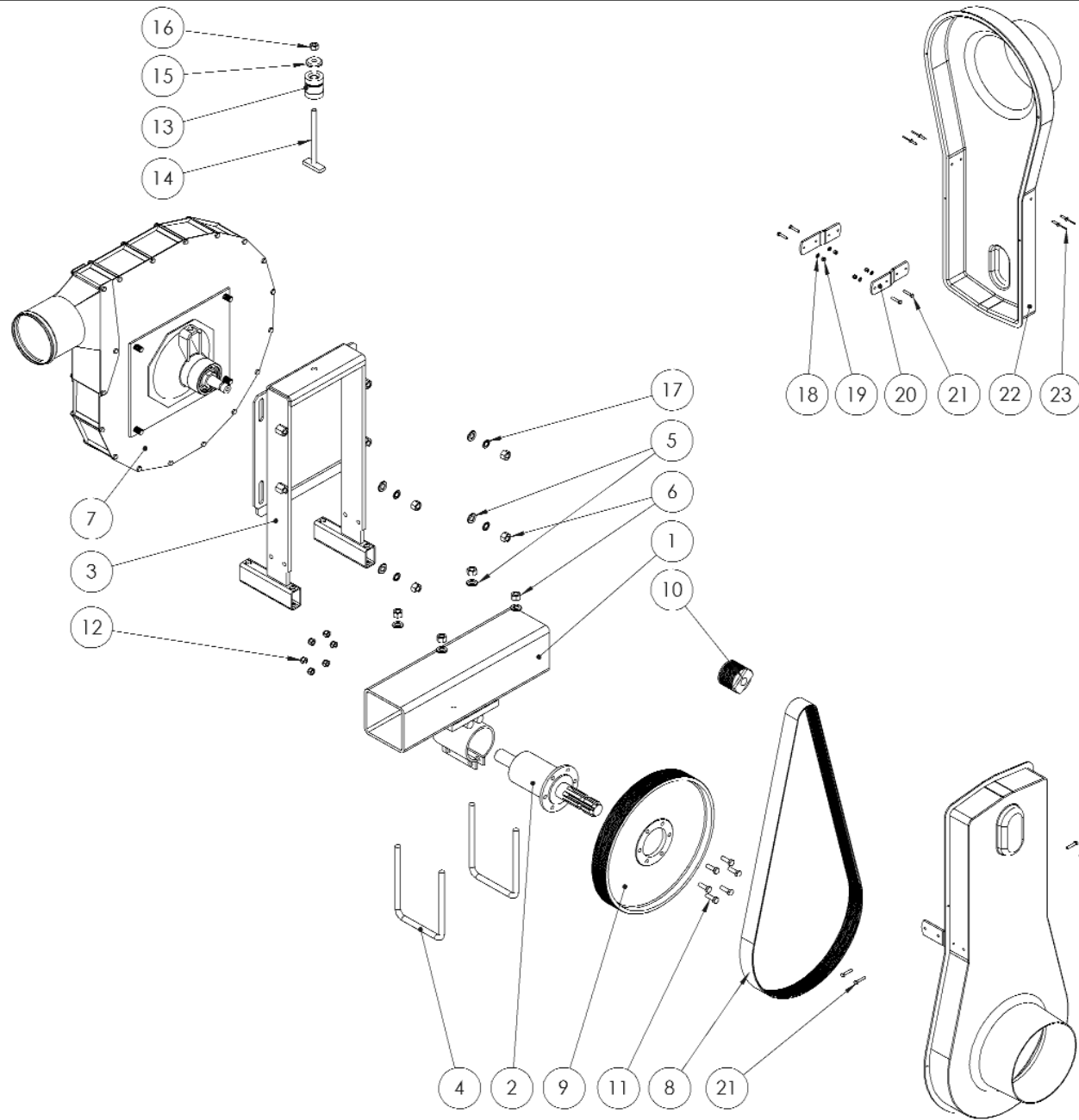
PNEUMATIC SEED METER SUPPORTING FRAME

Item	Code Number	Description	Item	Code Number	Description
1	16.64.596.00	Planting unit	29	18.37.01.014	Lock nut - 5/16"
2	16.64.325.01	Pneumatic meter upper anchor	30	18.03.10.057	Hex head bolt - BSW 1/2" x 2 1/2" double-chrome coated
3	16.55.152.10	Pulley	31	18.03.10.027	Hex head bolt - BSW 5/16" x 3 1/4" double-chrome coated
4	16.64.377.01	Bushing - pulley guide	32	18.03.10.020	Hex head bolt - BSW 5/16" x 1 1/2" double-chrome coated
5	16.64.328.00	Plate - chain and tensioner cover	33	18.03.10.023	Hex head bolt - BSW 5/16" x 2 1/4" double-chrome coated
6	15.64.829.10	Universal joint	34	18.01.10.003	Flat washer - 5/16" double-chrome coated
7	15.64.938.10	Gearbox 1,4:1 OCE 2650	35	18.03.10.032	Hex head bolt - BSW 3/8" x 1 1/4" double-chrome coated
8	16.64.148.01	Gearbox anchorage	36	18.02.10.004	Lock washer - 3/8" double-chrome coated
9	16.64.149.01	Spacer bushing	37	18.16.10.004	Hex nut - BSW 3/8" double-chrome coated
10	16.64.329.00	Bracket - opener unit strengthener	38	18.03.10.031	Hex head bolt - BSW 3/8" x 1" double-chrome coated
11	16.64.326.01	Pneumatic meter lower anchor	39	18.03.10.024	Hex head bol t - BSW 5/16" x 2 1/2" double-chrome coated
12	16.64.455.10	Seed plate for corn 24 cells	40	18.26.01.034	Spring pin - 5 x 45
12	16.64.456.10	Seed plate for sorghum 96 cells	41	18.09.01.104	Allen screw - 3/16" x 1/2"
12	16.64.457.10	Seed plate for soybean 72 cells	42	16.64.501.10	Discharge tube guide anchor
12	16.64.458.10	Seed plate for sunflower 24 cells	43	16.64.502.10	Discharge tube guide
12	16.64.459.10	Seed plate for white alubia beans 24 cells	44	16.64.503.10	Discharge tube closure
12	16.64.460.10	Seed plate for safflower 72 cells	45	18.03.10.004	Hex head bolt - BSW 1/4" x 1/2" double-chrome coated
12	16.64.461.10	Seed plate for peanut 48 cells	46	18.16.10.002	Hex nut - BSW 1/4" double-chrome coated
13	16.64.474.10	Discharge tube for pneumatic meter	47	18.03.10.006	Hex head bolt - BSW 1/4" x 3/4" double-chrome coated
14	16.64.330.01	Bracket - gearbox support	48	18.01.10.002	Flat washer - 1/4" double-chrome coated
15	15.64.828.10	Gearbox 1,4:1 OCE 2600	49	18.02.10.002	Lock washer -1/4" double-chrome coated
16	16.64.332.01	Sprocket hub Z:16 - pneumatic meter drive			
17	16.64.331.01	Sprocket Z:16 pneumatic meter drive			
18	16.64.385.00	Roller chain: sprocket Z16 to meter			
19	15.64.759.10	Assembled pneumatic meter			
20	18.01.10.004	Flat washer - 3/8" double-chrome coated			
21	18.37.01.011	Lock nut - 3/8"			
22	18.03.10.053	Hex head bolt - BSW 1/2" x 1 1/2" double-chrome coated			
23	18.03.10.034	Hex head bolt - BSW 3/8" x 1 3/4" double-chrome coated			
24	18.01.10.006	Flat washer - 1/2" double-chrome coated			
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	18.16.10.003	Hex nut - BSW 5/16" double-chrome coated			
28	18.02.10.003	Lock washer - 5/16" double-chrome coated			



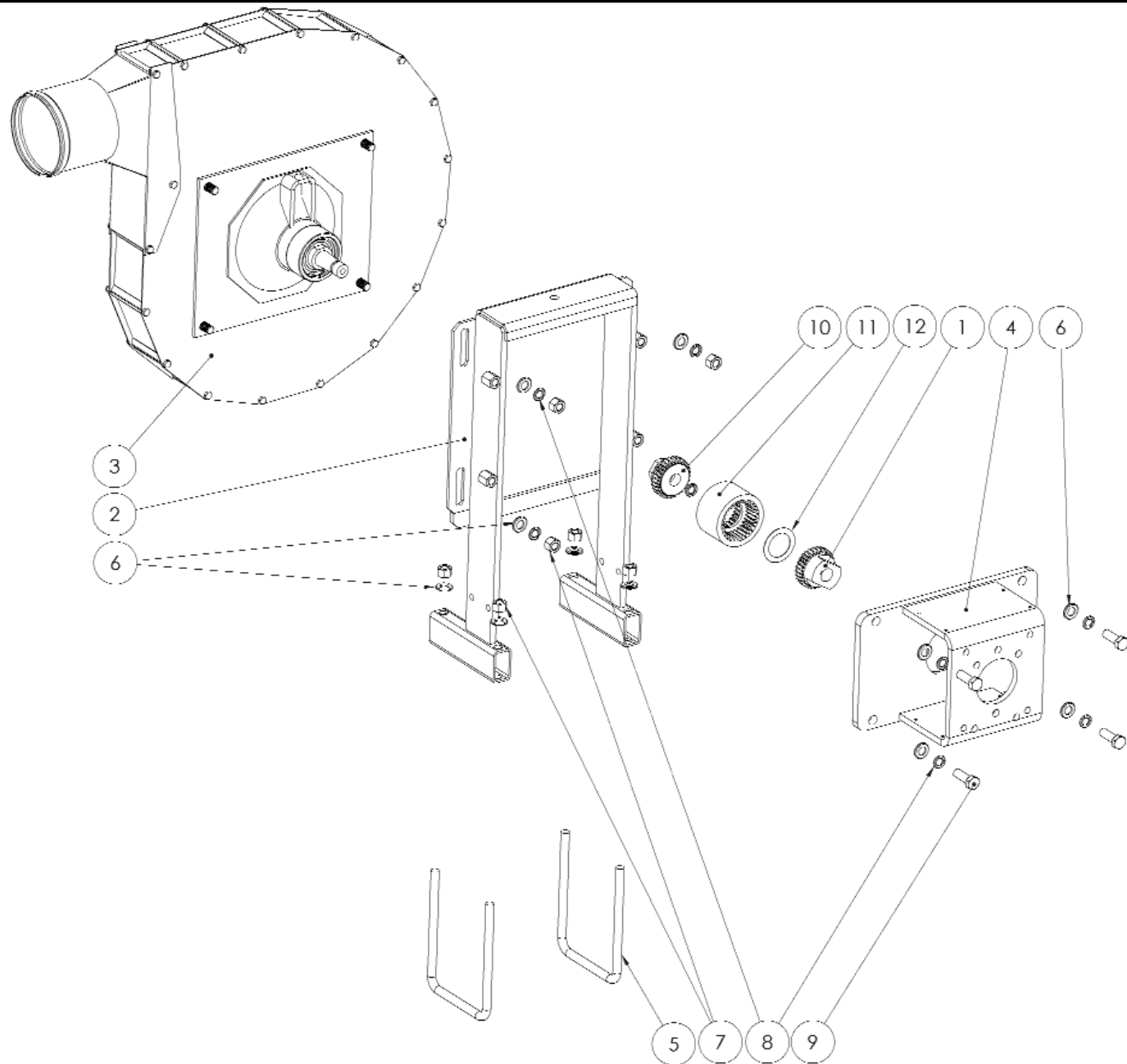


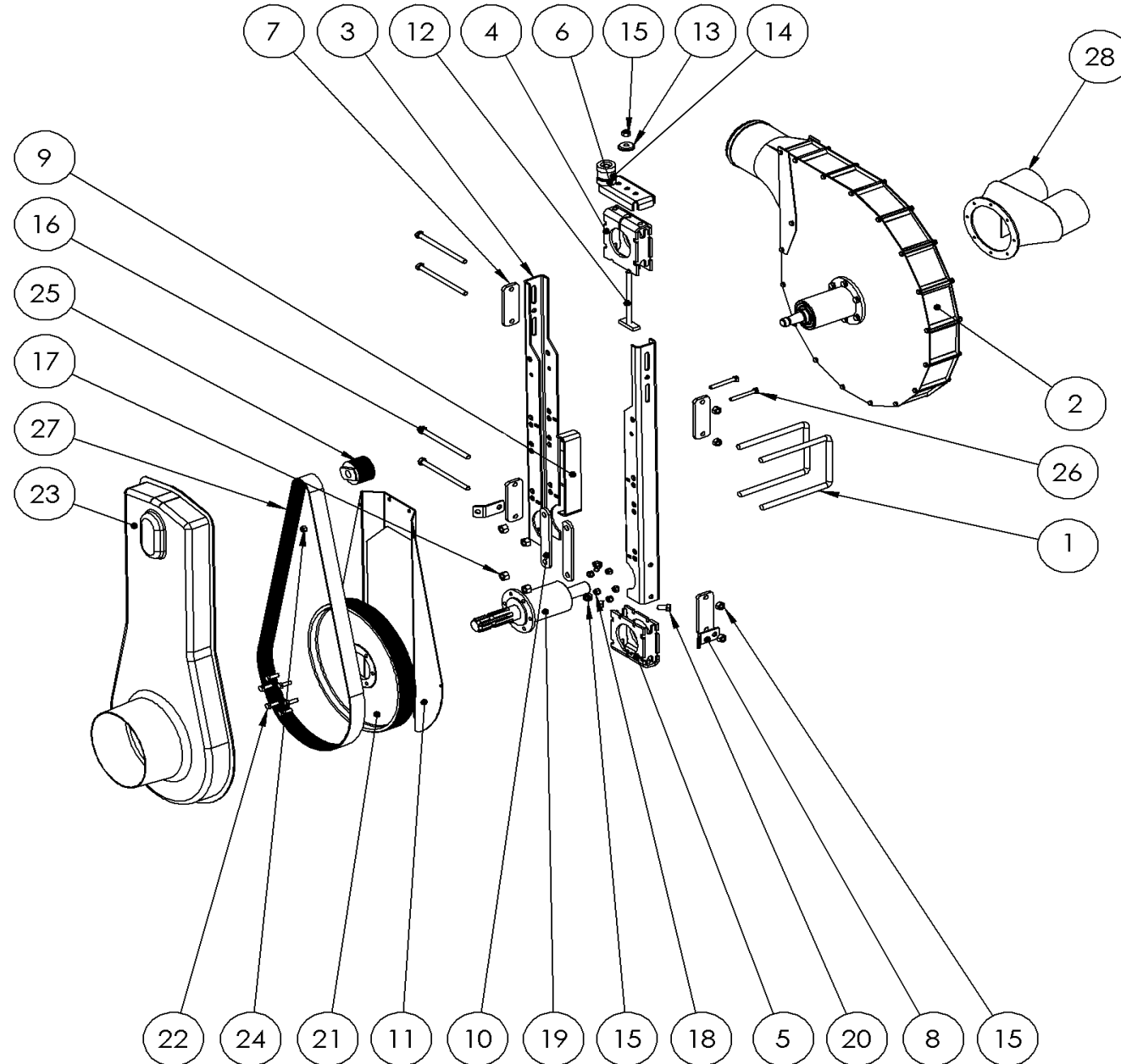




PICTURE N° 28

SINGLE FAN FOR 10 TO 16 ROWS AND DOUBLE FAN FOR 26 AND 28 ROWS W/ HYDRAULIC MOTOR SHAFT



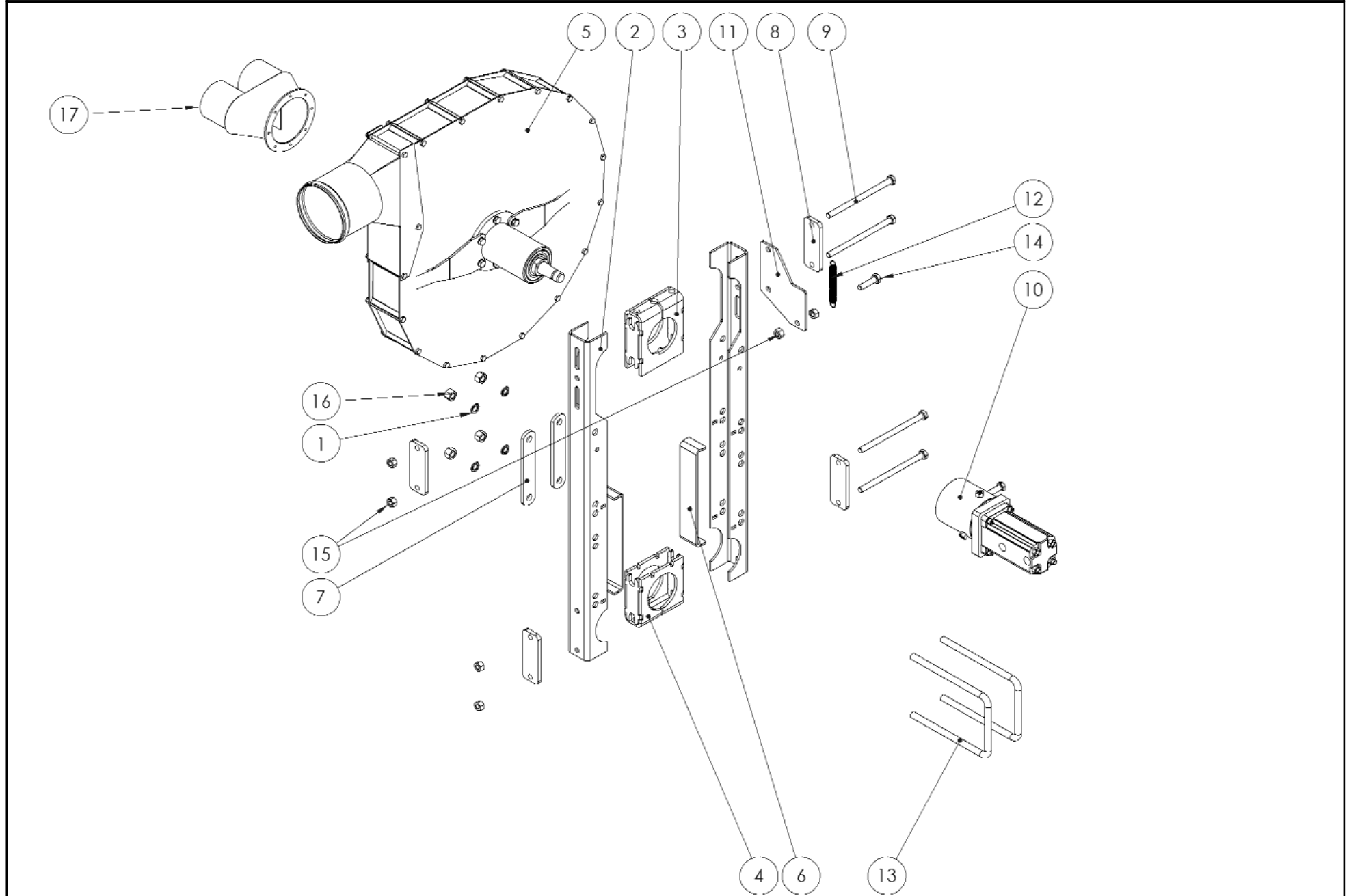


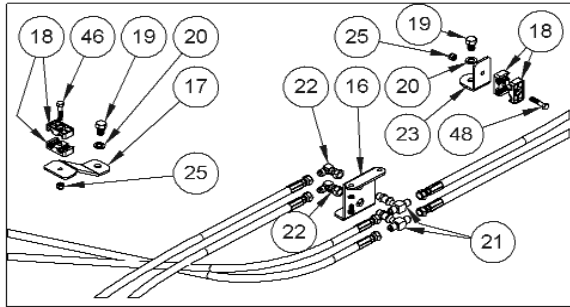
SINGLE FAN FOR 18 TO 24 ROWS W/ DRIVESHAFT

Item	Code Number	Description	Item		
1	16.64.538.10	U-bolt			
2	15.64.515.10	Fan w/ curved blades			
3	16.64.539.10	Fan supporting frame			
4	16.64.540.10	Bracket - pulley adjustment support			
5	16.64.541.10	Bracket - fan support			
6	16.64.542.10	Upper bracket - belt adjustment			
7	16.64.543.10	Fixing plate			
8	16.64.544.10	Anchorage - fan shield support			
9	16.64.545.10	Spacer - fan support			
10	16.64.546.10	Strap clamp			
11	16.64.547.10	Fan shield supporting frame			
12	16.64.548.10	Belt adjusting tensioner			
13	16.64.549.10	Cover			
14	15.64.516.10	Fan adjustment set			
15	18.16.02.004	Hex nut - MALE THREAD 10			
16	18.03.01.139	Hex head bolt - MALE THREAD 10 x 100 x 26			
17	18.16.02.006	Hex nut - MALE THREAD 12			
18	18.37.02.014	Lock nut - MALE THREAD 8			
19	15.64.517.10	Pulley shaft			
20	18.03.02.030	Hex head bolt - MALE THREAD 10 x 20			
21	16.64.550.10	Pulley - 540RPM			
22	18.03.02.018	Hex head bolt - MALE THREAD 8 x 25			
23	16.64.551.10	Belt cover			
24	18.16.02.003	Hex nut - MALE THREAD 8			
25	16.64.552.10	Pulley - 1000RPM at PTO Ø 58			
25	16.64.558.10	Pulley - 750RPM at PTO Ø 46			
25	16.64.559.10	Pulley - 650RPM at PTO Ø 42			
25	16.64.560.10	Pulley - 540RPM at PTO Ø 34			
26	18.03.02.024	Hex head bolt - MALE THREAD 8 x 65 x 22			
27	16.64.557.10	Belt - POLY V-PJ 1752			
28	16.64.589.10	Fan air double outlet			

PICTURE N° 30

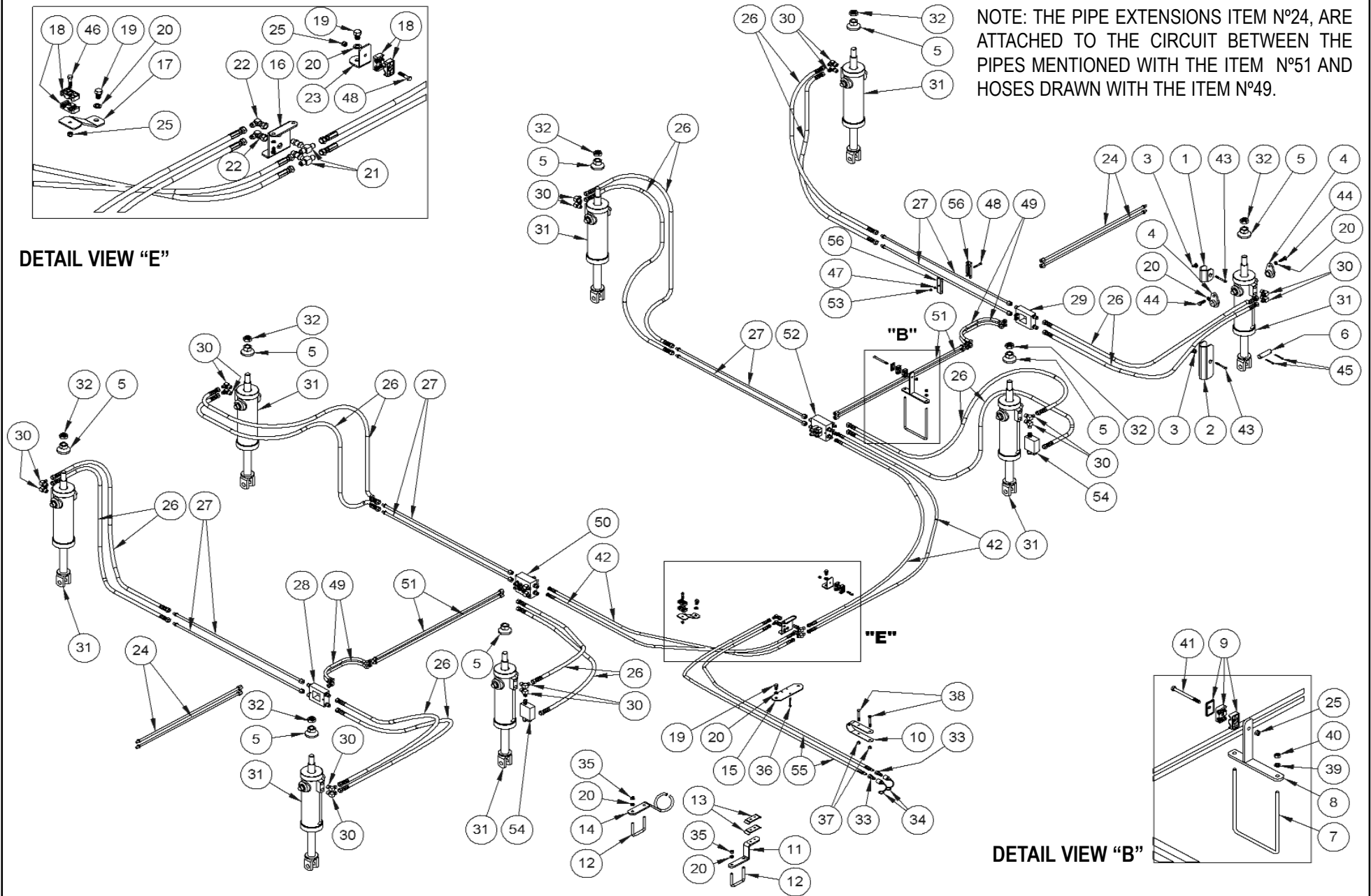
SINGLE FAN FOR 18 TO 24 ROWS W/ HYDRAULIC MOTOR





DETAIL VIEW "E"

NOTE: THE PIPE EXTENSIONS ITEM N°24, ARE ATTACHED TO THE CIRCUIT BETWEEN THE PIPES MENTIONED WITH THE ITEM N°51 AND HOSES DRAWN WITH THE ITEM N°49.

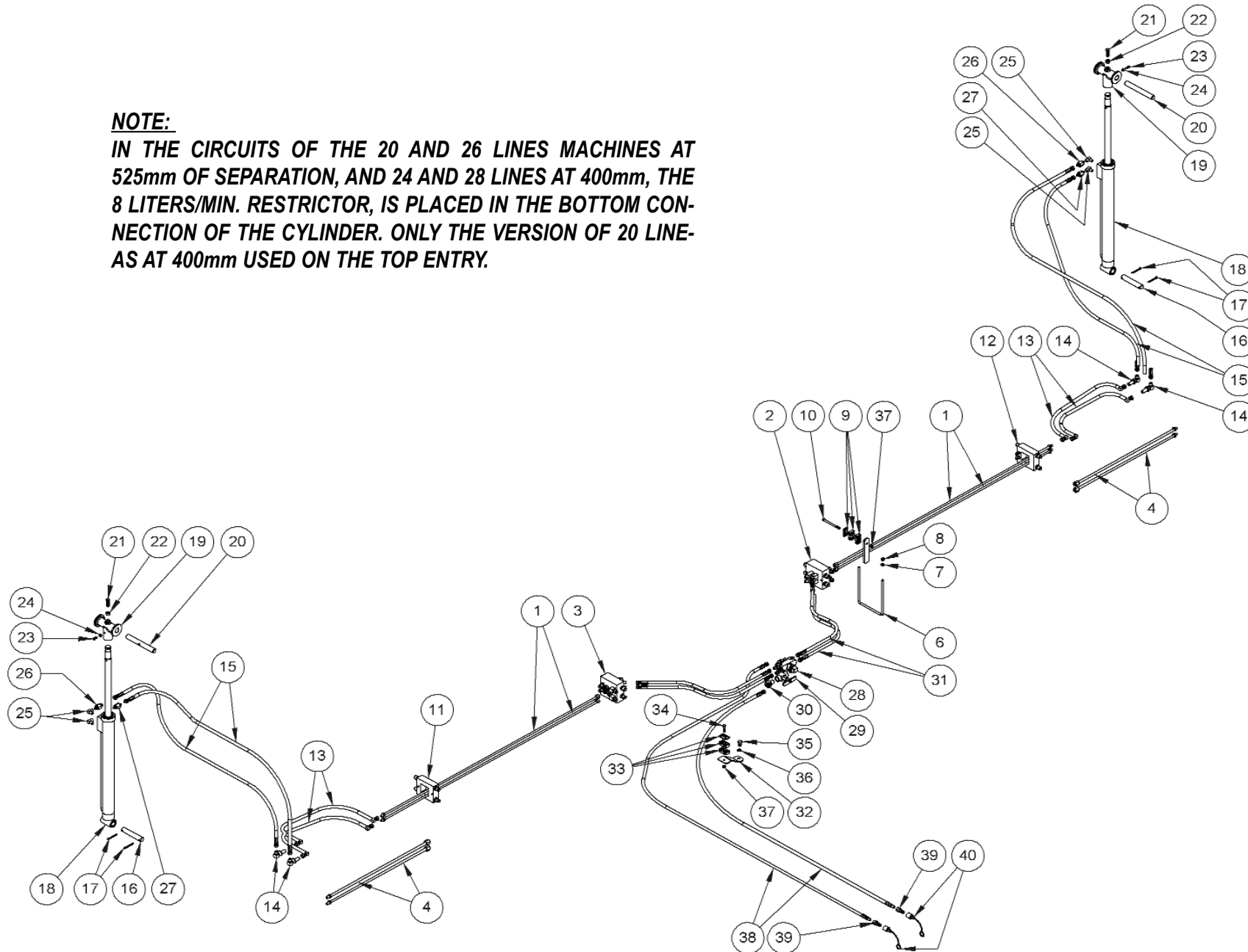


DETAIL VIEW "B"

HYDRAULIC CIRCUIT WORKING AND TRANSPORT WHEELS - 2 FRAME MACHINE

Item	Code Number	Description	Item	Code Number	Description
1	16.64.176.00	Work wheels cylinders top position	31	18.43.01.836	Cylinder - Ø3 1/2" wheels operating for 20 and 24 rows at 400mm and 20 rows at 525mm
2	16.64.175.00	Cylinder lock - transport wheels			
3	16.17.160.10	Wing nut	31	18.43.01.838	Cylinder Ø4" wheels operating for 28 rows at 400mm and 26 rows at 525mm
4	16.64.174.00	Cylinder lock - wheels operation	32	18.23.01.012	Flat hex nut - SAE 1 1/8"
5	16.33.069.00	Nut - cylinder adjustment fixing	33	18.43.01.018	Quick attach coupling - 1/2" NPT
6	16.30.084.01	Pin - drive wheel cylinder fastener	34	18.43.01.039	Protector cap - BTHP 1/2"
7	16.64.279.01	Clamp - hydraulic pipes anchorage support	35	18.16.10.006	Hex nut - BSW 1/2" double-chrome coated
8	16.64.280.00	Hydraulic pipes anchorage <i>(enlarged image)</i>	36	18.03.10.013	Hex head bolt - BSW1/4" x 2 1/4" double-chrome coated
8	16.64.298.00	"T" straps - hydraulic pipes holders anchorage	37	18.37.01.011	Lock nut - 3/8"
9	18.43.07.007	Hydraulic pipe holders - 1/2"	38	18.03.10.040	Hex head bolt - BSW 3/8" x 3 1/4" double-chrome coated
10	16.64.305.01	Hoses supporting guide	39	18.02.10.004	Lock washer -3/8" double-chrome coated
11	16.64.183.00	Strap - hitch hydraulic hoses holder	40	18.16.10.004	Hex nut - BSW 3/8" double-chrome coated
12	16.64.185.01	Clamp - hitch hoses support	41	18.03.10.151	Hex head bolt - BSW 5/16" x 3 1/2" double-chrome coated
13	16.64.184.00	Covering straps for hoses holder	42	18.43.05.127	Hose 3/8" SAE 100 R2 AT x 370 - SWIVEL 3/4" UNF JIC 37° both ends
14	16.64.182.00	Strap and ring - fastener	43	18.03.10.026	Hex head bolt BSW 5/16" x 3" double-chrome coated
15	16.64.181.01	Strap - flow control valve support	44	18.03.10.053	Hex head bolt BSW 1/2" x 1 1/2" double-chrome coated
16	16.64.500.01	Bracket - sequence valve support	45	18.25.01.019	Chaveta partida 6 x 50
17	16.64.304.01	Strap - hoses support anchorage	46	18.03.10.020	Hex head bolt - BSW5/16" x 1 1/2" double-chrome coated
18	18.43.07.008	Hoses supports - 3/8" R2 AT	47	18.02.10.003	Lock washer - 5/16" double-chrome coated
19	18.03.10.050	Hex head bolt - BSW 1/2" x 3/4" double-chrome coated	48	18.03.10.022	Hex head bolt - BSW 5/16" x 2" double-chrome coated
20	18.02.10.006	Lock washer - 1/2" double-chrome coated	49	18.43.05.142	Hose 3/8" SAE 100 R2 AT x 600 - 90° SWIVEL 3/4" UNF JIC 37° both ends
21	18.43.04.020	"Tee" fitting - MALE THREAD 3/4" UNF JIC37° (3 ends)	50	18.43.04.165	Left-center connector block
22	18.43.04.099	90° elbow fitting -MALE THREAD 3/4" UNF JIC37°-SWIVEL 3/4" UNF JIC37°	51	18.43.03.116	Hydraulic pipe 1/2" x 2785 - MALE THREAD 3/4" UNF JIC37°-SWIVEL 3/4" UNF JIC37°
23	16.64.303.01	Bracket - hoses support			
24	18.43.03.104	Hydraulic pipe 1/2" x 1065 -MALE THREAD 3/4" UNF JIC 37°- SWIVEL 3/4" UNF JIC37° extension for machine.20 rows at 525mm	52	18.43.04.166	Right-center connector block
			53	18.16.10.003	Hex nut BSW 5/16" double-chrome coated
24	18.43.03.114	Hydraulic pipe 1/2" x 2638 -MALE THREAD 3/4" UNF JIC 37°- SWIVEL 3/4" UNF JIC37° extension for machine 26 rows at 525mm	54	18.43.02.054	Variable pressure valve - built-in check (<i>IMPORTANT: in 24 rows at 400mm all front cylinders have valves</i>)
24	18.43.03.115	Hydraulic pipe 1/2" x 1600 -MALE THREAD 3/4" UNF JIC 37°- SWIVEL 3/4" UNF JIC37° extension for machine 28 rows at 400mm	55	18.43.05.140	Hose 3/8" SAE 100 R2 AT x 6430 - MALE THREAD 1/2" NPT- SWIVEL 3/4" UNF JIC 37° for 20,24 and 28 rows at 400mm
25	18.37.01.014	Lock nut 5/16"	55	18.43.05.141	Hose 3/8" SAE 100 R2 AT x 8550 - MALE THREAD 1/2" NPT- SWIVEL 3/4" UNF JIC 37° for 20 and 26 rows at 525mm
26	18.43.05.126	Hose 3/8" SAE 100 R2 AT x 1130 - SWIVEL 3/4" UNF JIC 37° both ends			
27	18.43.03.100	Hydraulic pipe 1/2" x 750 - MALE THREAD 3/4" UNF JIC 37° - SWIVEL 3/4" UNF JIC 37°	56	16.64.285.01	"U" bracket - hydraulic pipes fixing
28	18.43.04.160	Left-side connector block			
29	18.43.04.159	Right-side connector block			
30	18.43.04.002	90° Elbow - Male T 1/2" NPT - Male T 3/4" UNF JIC 37°			

NOTE:
 IN THE CIRCUITS OF THE 20 AND 26 LINES MACHINES AT 525mm OF SEPARATION, AND 24 AND 28 LINES AT 400mm, THE 8 LITERS/MIN. RESTRICTOR, IS PLACED IN THE BOTTOM CONNECTION OF THE CYLINDER. ONLY THE VERSION OF 20 LINE-AS AT 400mm USED ON THE TOP ENTRY.

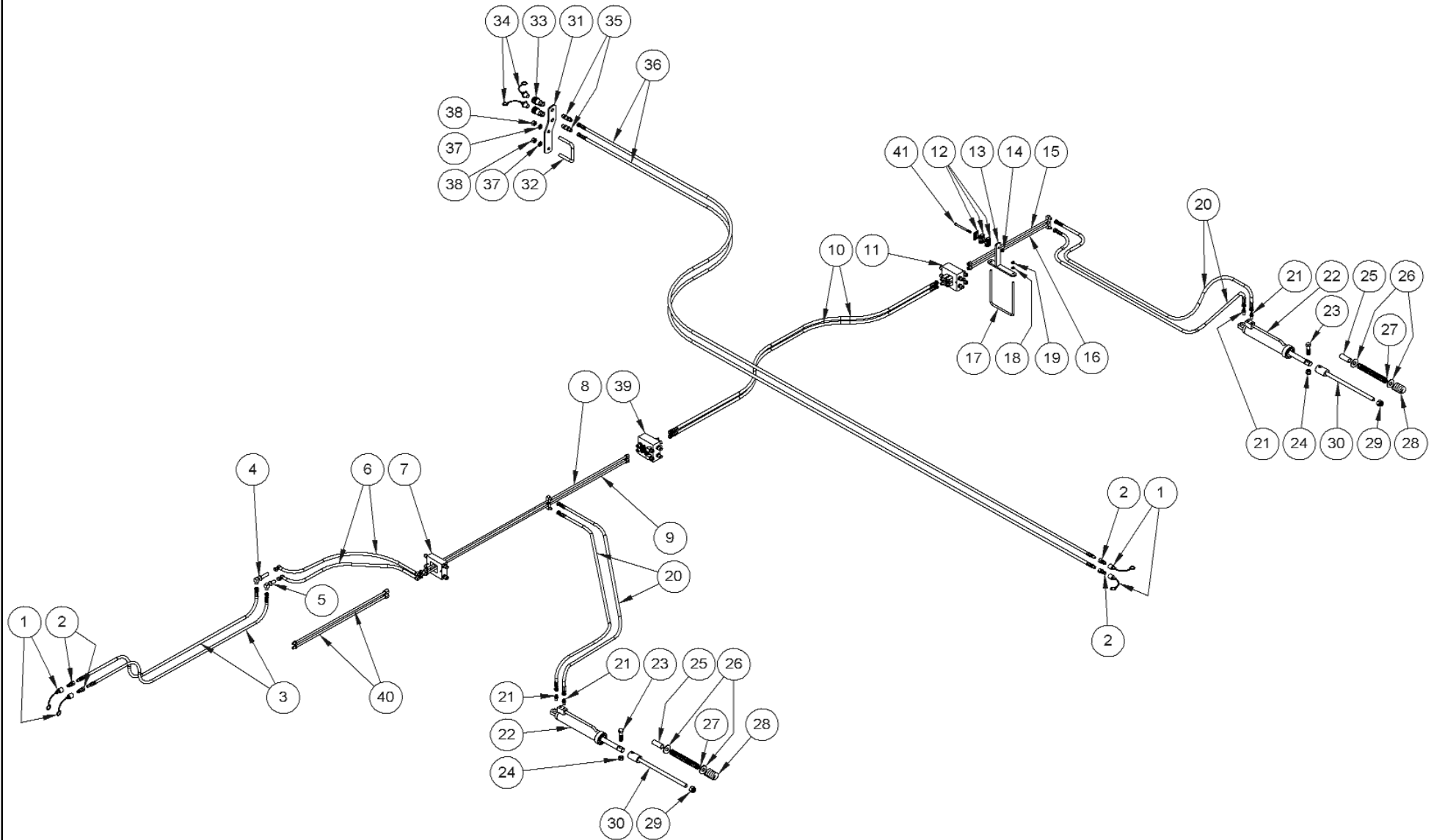


HYDRAULIC CIRCUIT FOR ROW MARKERS - 2 FRAME MACHINE

Item	Code Number	Description	Item	Code Number	Description
1	18.43.03.109	Hydraulic pipe 3/8" x3635 - MALE THREAD 9/16" UNF JIC 37° - SWIVEL 9/16" UNF JIC 37°	26	18.43.04.167	Restrictor - Male thread 1/4"NPT- Male thread 9/16" UNFJIC37° 8 lts/min
2	18.43.04.166	Right-center connecting block	27	18.43.04.168	Restrictor - Male thread 1/4"NPT-Male threa 9/16" UNFJIC37° 10 lts/ min
3	18.43.04.165	Left-center connecting block	28	18.43.01.321	Sequence valve for row markers
4	18.43.03.110	Hydraulic pipe 3/8" x 1225 - MALE THREAD 9/16" UNF JIC 37° - SWIVEL 9/16" UNF JIC 37° extension for 20 rows at 525	29	18.43.02.053	Block valve 2V/2P - Thread 1/2" NPT
4	18.43.03.111	Hydraulic pipe 3/8" x 775 - MALE THREAD 9/16" UNF JIC 37° - SWIVEL 9/16" UNF JIC 37° extension for 24 rows at 400	30	18.43.04.002	90° elbow fitting - Male thread 1/2" NPT - Male thread 3/4" UNF JIC 37°
4	18.43.03.112	Hydraulic pipe 3/8" x 2625 - MALE THREAD 9/16" UNF JIC 37° - SWIVEL 9/16" UNF JIC 37° extension for 26 rows at 525	31	18.43.05.139	Hose 1/4" SAE 100 R2 AT x 690 - SWIVEL 9/16" JIC 37° both ends
4	18.43.03.113	Hydraulic pipe 3/8" x 1575 - MALE THREAD 9/16" UNF JIC 37° - SWIVEL 9/16" UNF JIC 37° extension for 28 rows at 400	32	16.64.304.01	Strap - hose support anchorage
5	16.64.280.00	"T" strap - hydraulic pipes holder	33	18.43.07.008	Hose support - 3/8"
5	16.64.298.00	"T" strap - hydraulic pipes end holder	34	18.03.10.022	Hex head bolt - BSW 5/16" x 2" double-chrome coated
6	16.64.279.01	Clamp - hydraulic pipes holder anchorage	35	18.03.10.050	Hex head bolt - BSW 1/2" x 3/4" double-chrome coated
7	18.02.10.004	Lock washer - 3/8" double-chrome coated	36	18.02.10.006	Lock washer - 1/2" double-chrome coated
8	18.16.10.004	Hex nut - BSW 3/8" double-chrome coated	37	18.37.01.014	Lock nut - 5/16"
9	18.43.07.007	Hydraulic pipe support 1/2"	38	18.43.05.140	Hose 3/8" SAE 100 R2 AT x 6430 - MALE THREAD 1/2" NPT - SWIVEL 3/4" UNF JIC37° for 20, 24 and 28 rows at 400mm
10	18.03.10.151	Hex head bolt BSW 5/16" x 3 1/2"	38	18.43.05.141	Hose 3/8" SAE 100 R2 AT x 8550 - MALE THREAD 1/2" NPT - SWIVEL 3/4" UNF JIC37° for 20 and 26 rows at 525mm
11	18.43.04.160	Left side connector block	39	18.43.01.018	Quick attach coupling 1/2" NPT
12	18.43.04.159	Right side connector block	40	18.43.01.039	Protector cap BTHP 1/2"
13	18.43.05.123	Hose 1/4" SAE 100 R2 AT x 630 - 90° swivel 9/16" UNF JIC 37° both ends			
14	18.43.04.113	90° elbow fitting - MALE THREAD 9/16"UNF JIC37° x 2			
15	18.43.01.122	Hose 1/4" SAE 100 R2 AT x 900 - SWIVEL 9/16" JIC 37° both ends			
16	16.64.173.01	Pin - cylinder marker pivot			
17	18.25.10.019	Split cotter pin 6 x 50 double-chrome coated			
18	18.43.01.842	Cylinder Ø2 1/2" marker operation			
19	16.65.318.00	Upper end - marker cylinder operation			
20	16.65.319.01	Pin - cylinder upper end			
21	18.06.10.053	Square head bolt BSW 1/2" x 1 1/2" double-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" double-chrome coated			
24	18.16.10.003	Hex nut BSW 5/16"			
25	18.43.01.605	90° elbow fitting MALE THREAD 1/4" NPT - Female thread 1/4" NPT			

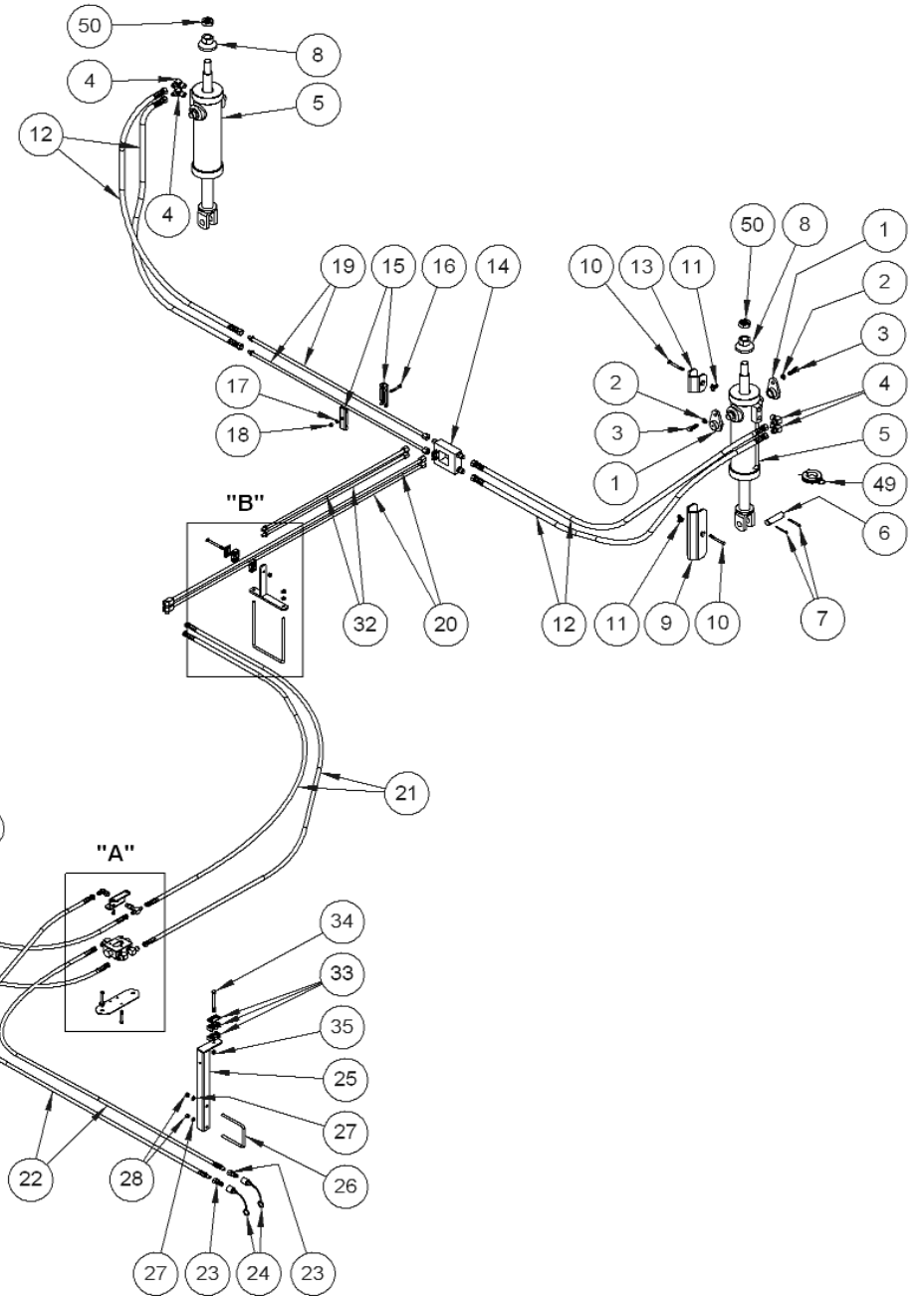
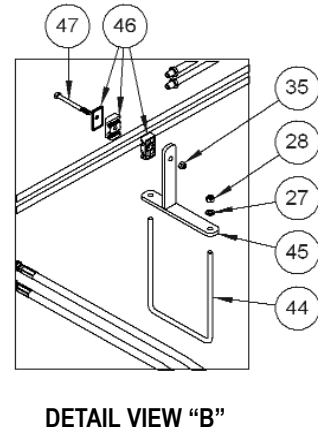
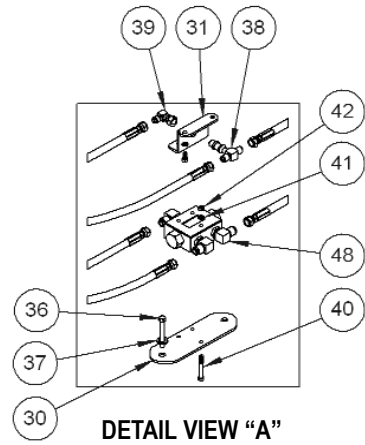
PICTURE N° 33

HYDRAULIC CIRCUIT FOR WORKING HITCH AND AUGER - 2 FRAME MACHINE



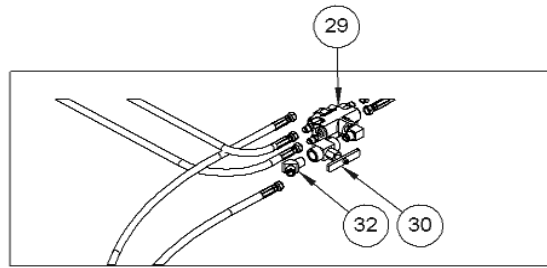
HYDRAULIC CIRCUIT FOR WORKING HITCH AND AUGER - 2 FRAME MACHINE

Item	Code Number	Description	Item	Code Number	Description
1	18.43.01.039	Protector cap -BTHP 1/2"	22	18.43.01.833	Cylinder - Ø2" hitch operation
2	18.43.01.018	Quick attach coupling -1/2" NPT	23	18.03.10.079	Hex head bolt - BSW 5/8" x 2 1/2" double-chrome coated
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°	24	18.37.01.012	Lock nut - 5/8"
4	18.43.04.161	90° long elbow fitting - Male thread 9/16" UNF JIC 37° both ends	25	16.64.170.00	Bushing - hitch adjusting spring stop
5	18.43.04.113	90° elbow fitting - Male thread 9/16" UNF JIC 37° both ends	26	18.01.10.009	Flat washer - 3/4" double-chrome coated
6	18.43.05.123	Hose -1/4" SAE 100 R2 AT x 630 - 90° swivel 9/16" JIC 37° both ends	27	18.38.01.272	Spring - cylinder closure shock absorber
7	18.43.04.160	Left-side connection block	28	18.38.01.273	Spring - cylinder opening shock absorber
8	18.43.03.105	Hydraulic pipe 3/8" x 3620 - Male thread 9/16" UNF JIC 37° right "T"fitting Male thread 9/16" UNFJIC 37° - SWIVEL 9/16" UNF JIC 37°	29	18.37.01.015	Lock nut - 3/4"
9	18.43.03.106	Hydraulic pipe 3/8" x 3620 - Male thread 9/16" UNF JIC 37° left "T" fitting , male thread 9/16" UNFJIC 37° - SWIVEL 9/16" UNF JIC 37°	30	16.64.169.00	Cylinder/ hitch spring guide linkage
10	18.43.05.137	Hose 1/4" SAE 100 R2 AT x 1290 - SWIVEL 9/16" UNF JIC 37° both ends	31	16.64.322.01	Bracket - Quick attach coupling holder
11	18.43.04.166	Right-center connection block	32	16.64.056.01	Clamp - frame anchorage
12	18.43.07.006	3/8"Hydraulic pipe support	33	18.43.04.169	Quick attach coupling - 1/2" NPT
13	16.64.280.00	"T" strap - hydraulic pipes holder	34	18.43.04.164	Protector cap - BTMP 1/2"
13	16.64.298.00	"T" strap - hydraulic pipes end holder	35	18.43.04.163	Adapter - Male thread 3/4" UNF JIC37° - Male thread 1/2" NPT
14	18.37.01.014	Lock nut - 5/16"	36	18.43.05.137	Hose - 3/8" SAE 100 R2 AT x7430-Male thread 1/2"NPT-swivel 3/4"UNFJIC37° for 20,24 and 28 rows at 400 mm
15	18.43.03.107	Hydraulic pipe 3/8" x1360 - SWIVEL 9/16" UNF JIC 37° - right 90°elbow fitting RM 9/16" UNF JIC 37°	36	18.43.05.138	Hose 3/8" SAE 100 R2 AT x 9780-Male thread 1/2"NPT-swivel 3/4"UNFJIC37° for 20 and 26 rows at 525 mm
16	18.43.03.108	Hydraulic pipe 3/8" x1360 - SWIVEL 9/16" UNF JIC 37° - Left 90° elbow fitting, Male thread 9/16" UNF JIC 37°	37	18.02.10.008	Lock washer - 5/8" double chrome coated
17	16.64.279.01	Clamp - hydraulic pipes holder anchorage	38	18.16.10.008	Hex nut - BSW 5/8" double chrome coated
18	18.02.10.004	Lock washer - 3/8" double-chrome coated	39	18.43.04.165	Left -center connecting block
19	18.16.10.004	Hex nut - BSW 3/8" double-chrome coated	40	18.43.03.110	Hydraulic pipe 3/8" x 1225 - Male thread 9/16" UNF JIC 37° - swivel 9/16" UNF JIC 37° extension for 20 rows .at 525
20	18.43.05.138	Hose 1/4" SAE 100 R2 AT x 840 - SWIVEL 9/16" UNF JIC 37° both ends	40	18.43.03.111	Hydraulic pipe 3/8" x 775 - Male thread 9/16" UNF JIC 37° - swivel 9/16" UNF JIC 37° extension for 24 rows.at 400
21	18.43.04.162	Adapter w/ restrictor - Ø1mm Male thread 1/4" NPT- Male thread 9/16" UNF JIC37°	40	18.43.03.112	Hydraulic pipe 3/8" x 2625 - Male thread 9/16" UNF JIC 37° - swivel 9/16" UNF JIC 37° extension for26 rows at 525
			40	18.43.03.113	Hydraulic pipe 3/8" x 1575 - Male thread 9/16" UNF JIC 37° - swivel 9/16" UNF JIC 37° extension for28 rows at 400
			41	18.03.10.155	Hex head bolt BSW 5/16" x 4 1/2" double chrome coated



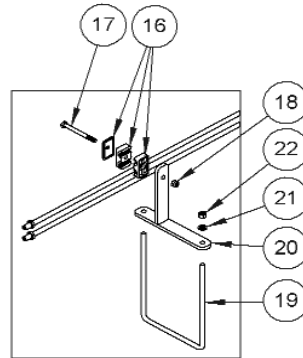
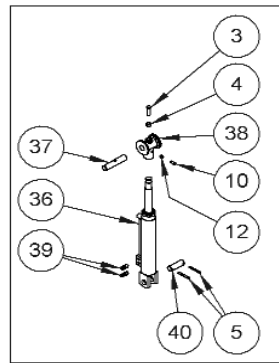
HYDRAULIC CIRCUIT FOR WORKING AND TRANSPORT WHEELS - 1 FRAME MACHINE

Item	Code Number	Description	Item	Code Number	Description
1	16.64.174.00	Cylinder lock - wheels operation	27	18.02.10.004	Lock washer - 3/8" double-chrome coated
2	18.02.10.006	Lock washer -1/2" double-chrome coated	28	18.16.10.004	Hex nut - BSW 3/8" double-chrome coated
3	18.03.10.053	Hex head bolt - BSW 1/2" x 1 1/2" double-chrome coated	29	18.43.04.160	Left side connector block
4	18.43.04.002	90° elbow - Male thread 1/2" NPT - Male thread 3/4" UNF JIC 37°	30	16.64.181.01	Strap - flow control valve support
5	18.43.01.838	Cylinder - Ø4" wheels operation for 16 rows at 400mm y 14 and 16 rows at 525mm	31	16.64.180.01	Bracket - sequence valve support
5	18.43.01.836	Cylinder - Ø3 1/2" wheels operation for 10 rows at 400mm and 10 rows at 525mm	32	18.43.03.104	Hydraulic tube-1/2" x 1065 -Male thread 3/4" UNFJIC 37°- swivel 3/4" UNF JIC 37° extension for machine 16 rows at 525mm
6	16.30.084.01	Drive wheel cylinder holder	33	18.43.07.008	Hoses holder 3/8" R2 AT
7	18.25.01.019	Split cotter pin - 6 x 50	34	18.03.10.155	Hex head bolt BSW 5/16" x 4 1/2" double chrome coated.
8	16.33.069.00	Nut -cylinder adjustment	35	18.37.01.014	Lock nut 5/16"
9	16.64.175.00	Cylinder lock - transport wheels	36	18.03.10.050	Hex head bolt .BSW 1/2" x 3/4" double chrome coated
10	18.03.10.026	Hex head bolt - BSW 5/16" x 3" double-chrome coated	37	18.02.10.006	Lock washer 1/2" double chrome coated
11	16.17.160.10	Wing nut	38	18.43.04.020	Tee fitting -Male thread 3/4"UNF JIC37° (3 ends)
12	18.43.05.126	Hose.3/8" SAE 100 R2 AT x 1130 - Swivel 3/4"UNF JIC 37° both ends	39	18.43.04.099	90° elbow - Male thread 3/4"UNF JIC37° - Swivel 3/4"UNF JIC37°
13	16.64.176.00	Work position cylinder stop	40	18.03.10.013	Hex head bolt - BSW 1/4" x 2 1/4" double-chrome coated
14	18.43.04.159	Right side connector block	41	18.02.10.002	Lock washer -1/4" double-chrome coated
15	16.64.285.01	"U"brackets - hydraulic pipes fixing	42	18.16.10.002	Hex nut - BSW 1/4" double-chrome coated
16	18.03.10.022	Hex head bolt - BSW 5/16" x 2" double-chrome coated	43	18.03.10.005	Hex head bolt BSW 1/4" x 5/8" .double chrome coated
17	18.02.10.003	Lock washer - 5/16" double-chrome coated	44	16.64.279.01	Clamp - hydraulic pipes anchorage support
18	18.16.10.003	Hex nut - BSW 5/16" double-chrome coated	45	16.64.280.00	Hydraulic pipes anchorage (<i>enlarged image</i>)
19	18.43.03.100	Hydraulic pipe -1/2" x 750 - Male thread 3/4" UNF JIC 37° - swivel 3/4" UNF JIC 37°	45	16.64.298.00	"T" straps - hydraulic pipes holders anchorage
20	18.43.03.101	Hydraulic pipe -1/2" x 1090 - Male thread 3/4" UNF JIC 37° - swivel 3/4" UNF JIC 37°	46	18.43.07.007	Hdraulic tube holder 1/2"
21	18.43.05.127	Hose 3/8" SAE 100 R2 AT x 370 - Swivel 3/4"UNF JIC 37° both ends	47	18.03.10.151	Hex head bolt BSW 5/16" x 3 1/2" double chrome coated.
22	18.43.05.125	Hose .3/8" SAE 100 R2 AT x 4700 - Male thread 1/2" NPT - Swivel 3/4"UNF JIC 37°	47	18.03.10.023	Hex head bolt BSW 5/16" x 2 1/4"double chrome coated.
23	18.43.01.018	Quick-attach coupling -1/2" NPT	48	18.43.02.010	Proportional flow control valve
24	18.43.01.039	Protector cap - BTHP 1/2"	49	15.64.503.00	Stop set -16mm thick
25	16.64.316.00	Bracket - hoses holder	50	18.23.01.012	Special flat nut SAE 1 1/8"
26	16.64.317.00	U-bolt - hoses holder anchorage			

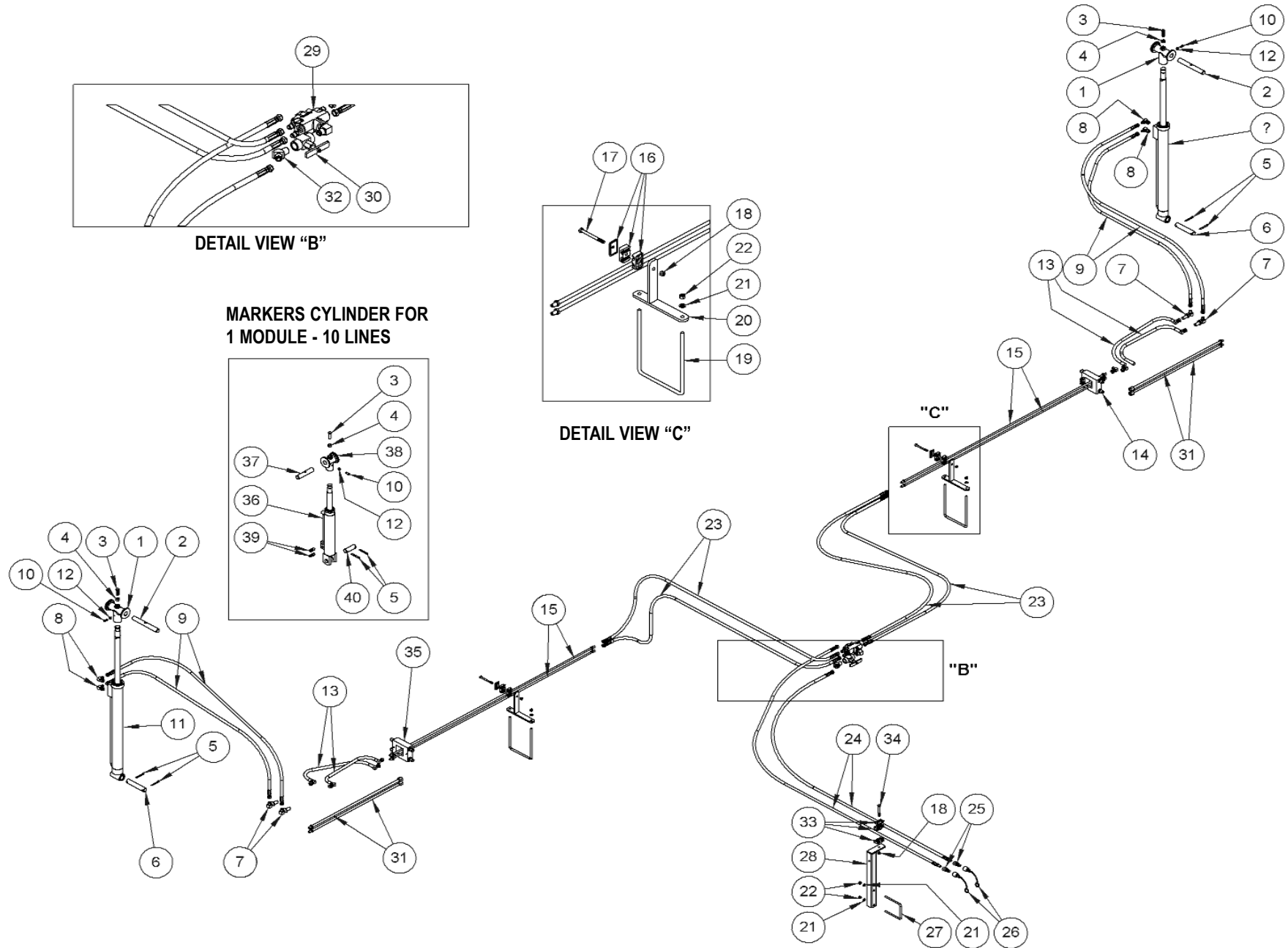


DETAIL VIEW "B"

MARKERS CYLINDER FOR
1 MODULE - 10 LINES



DETAIL VIEW "C"

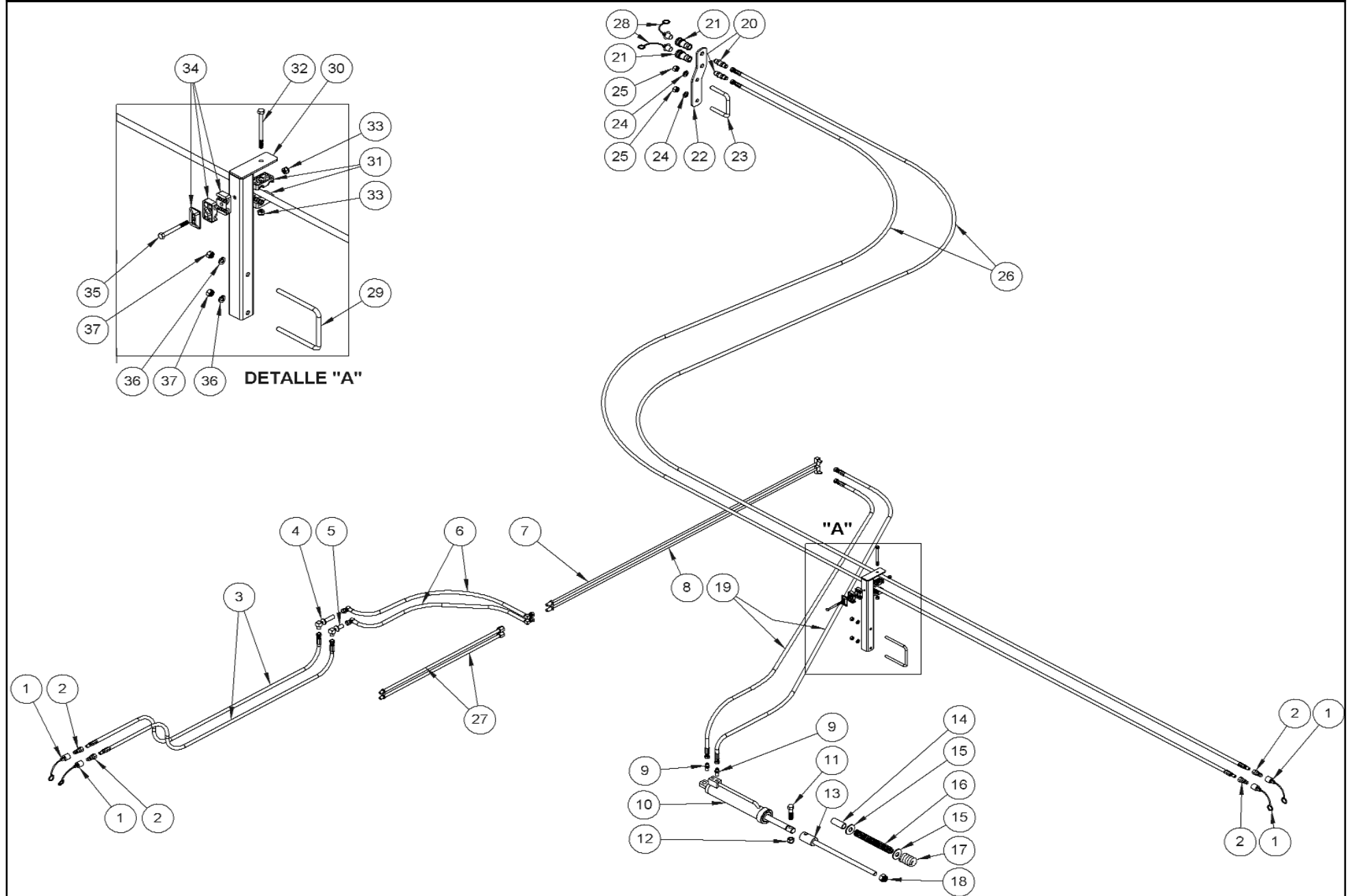


HYDRAULIC CIRCUIT FOR ROW MARKERS - 1 FRAME MACHINE

Item	Code Number	Description	Item	Code Number	Description
1	16.65.318.00	Marker cylinder upper end	23	18.43.05.124	Hose -1/4" SAE 100 R2 AT x 400 - swivel 9/16" JIC 37° both ends
2	16.65.319.01	Pin - upper cylinder end	24	18.43.05.125	Hose - 3/8" SAE 100 R2 AT x 4700 - Male thread 1/2" NPT - swivel 3/4" UNF JIC 37°
3	18.06.01.053	Square head bolt BSW 1/2" x 1 1/2"			
4	18.16.01.006	Hex nut BSW 1/2"	25	18.43.01.018	Quick attach coupling 1/2" NPT
5	18.25.01.019	Split cotter pin - 6 x 50	26	18.43.01.039	Protector cap - BTHP 1/2"
6	16.64.173.01	Pin - marker cylinder pivot	27	16.64.317.00	U-bolt - hoses holder anchorage
7	18.43.04.113	90° elbow fitting - Male thread 9/16" UNF JIC 37° x 2	28	16.64.316.00	Bracket - hoses holder
8	18.43.01.600	90° elbow fitting - Male thread 1/4" NPT - Male thread 9/16" UNF JIC 37°	29	18.43.01.321	Markers sequence valve
9	18.43.01.122	Hose 1/4" SAE 100 R2 AT x 900 - swivel 9/16" JIC 37° both ends	30	18.43.02.053	Blocking valve - 2V/2P - Thread: 1/2" NPT
9	18.43.01.142	Hose 1/4" SAE 100 R2 AT x 1270 - swivel 9/16" JIC 37° - Codo 90° HG 9/16" JIC 37° (for 10 rows machine)	31	18.43.03.105	Hydraulic pipe - 3/8" x 780 - Male thread 9/16" UNF JIC 37° - swivel 9/16" UNF JIC 37° extension for 16 rows at 525mm
10	18.06.10.013	Square head bolt BSW 5/16" x 3/4" double chrome coated	32	18.43.04.002	90° elbow fitting - Male thread 1/2" NPT - Male thread 3/4" UNF JIC 37°
11	18.43.01.842	Ø2 1/2" cylinder - marker operation	33	18.43.07.008	Hoses support - 3/8" R2 AT
12	18.16.10.003	Hex nut BSW 5/16" double chrome coated	34	18.03.10.026	Hex head bolt - BSW 5/16" x 3" double-chrome coated
13	18.43.05.123	Hose -1/4" SAE 100 R2 AT x 630 - 90° swivel 9/16" UNF JIC 37° both ends	35	18.43.04.160	Left side connector block
14	18.43.04.159	Right side connector block	36	18.43.01.770	Cylinder -marker operation
15	18.43.03.099	Hydraulic pipe 3/8" x 2795 - Male thread 9/16" UNF JIC 37° both ends for 16 rows at 400mm	37	16.30.038.01	Pin -marker cylinder holder
			38	16.54.295.00	Marker cylinder upper end
15	18.43.03.114	Hydraulic pipe 3/8" x 1633 - Male thread 9/16" UNF JIC 37° both ends for 10 rows at 400mm	39	18.43.04.168	Restrictor -Male thread 1/4" NPT -Male thread 9/16" UNF JIC 37°
			40	16.30.040.01	Pin - lower cylinder pivoting
15	18.43.03.115	Hydraulic pipe 3/8" x 3020 - Male thread 9/16" UNF JIC 37° both ends for 14 rows at 525mm			
16	18.43.07.006	3/8" hydraulic pipe support			
17	18.03.10.155	Hex head bolt - BSW 5/16" x 3 1/2" double-chrome coated			
18	18.37.01.014	Lock nut - 5/16"			
19	16.64.279.01	Clamp - hydraulic pipes holder anchorage			
20	16.64.280.00	Hydraulic pipes anchorage <i>(enlarged image)</i>			
20	16.64.298.00	"T" straps - hydraulic pipes holders anchorage			
21	18.02.10.004	Lock washer - 3/8" double-chrome coated			
22	18.16.10.004	Hex nut -BSW 3/8" double-chrome coated			

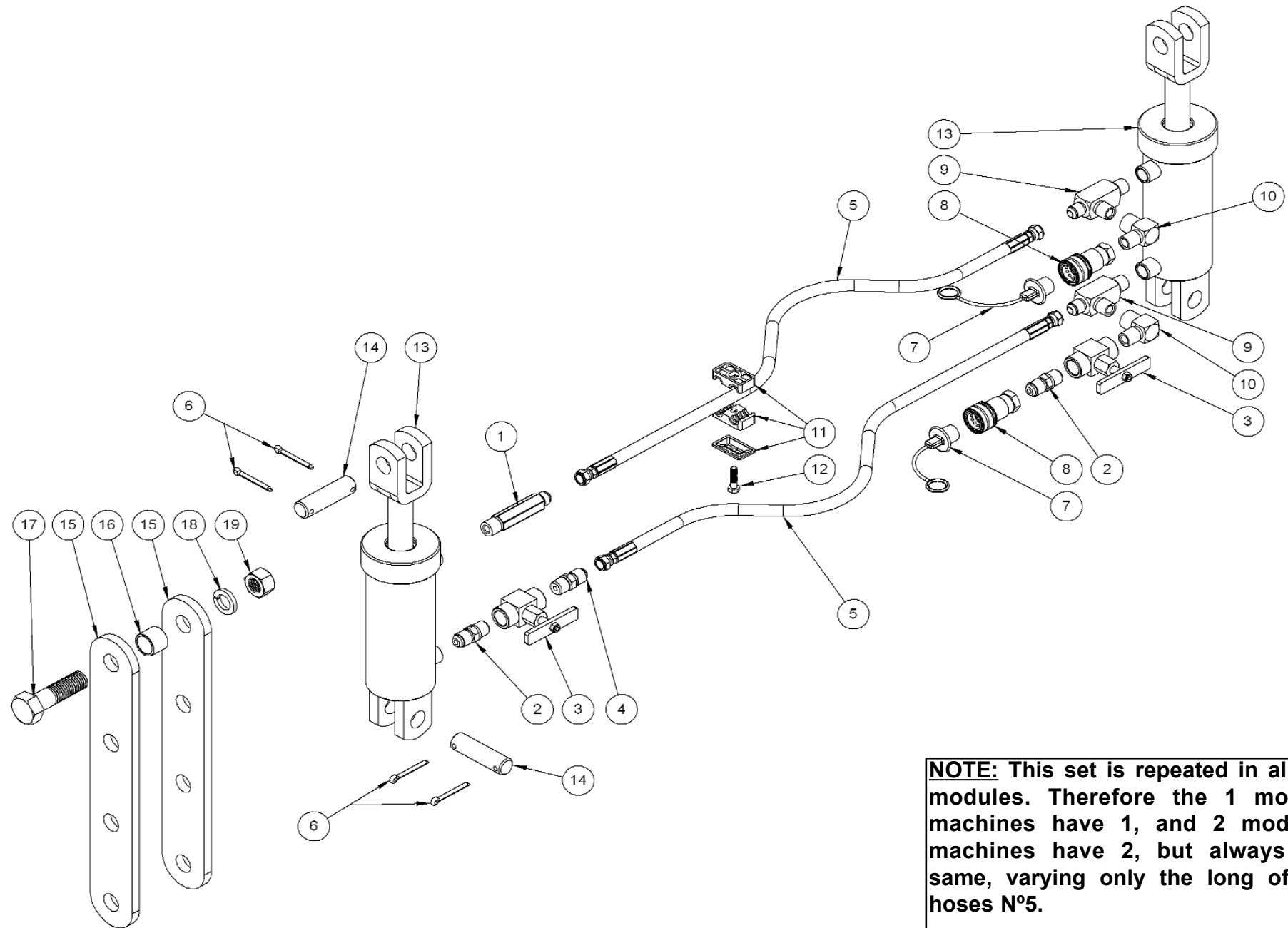
PICTURE N° 36

HYDRAULIC CIRCUIT FOR WORKING HITCH AND AUGER - 1 FRAME MACHINE

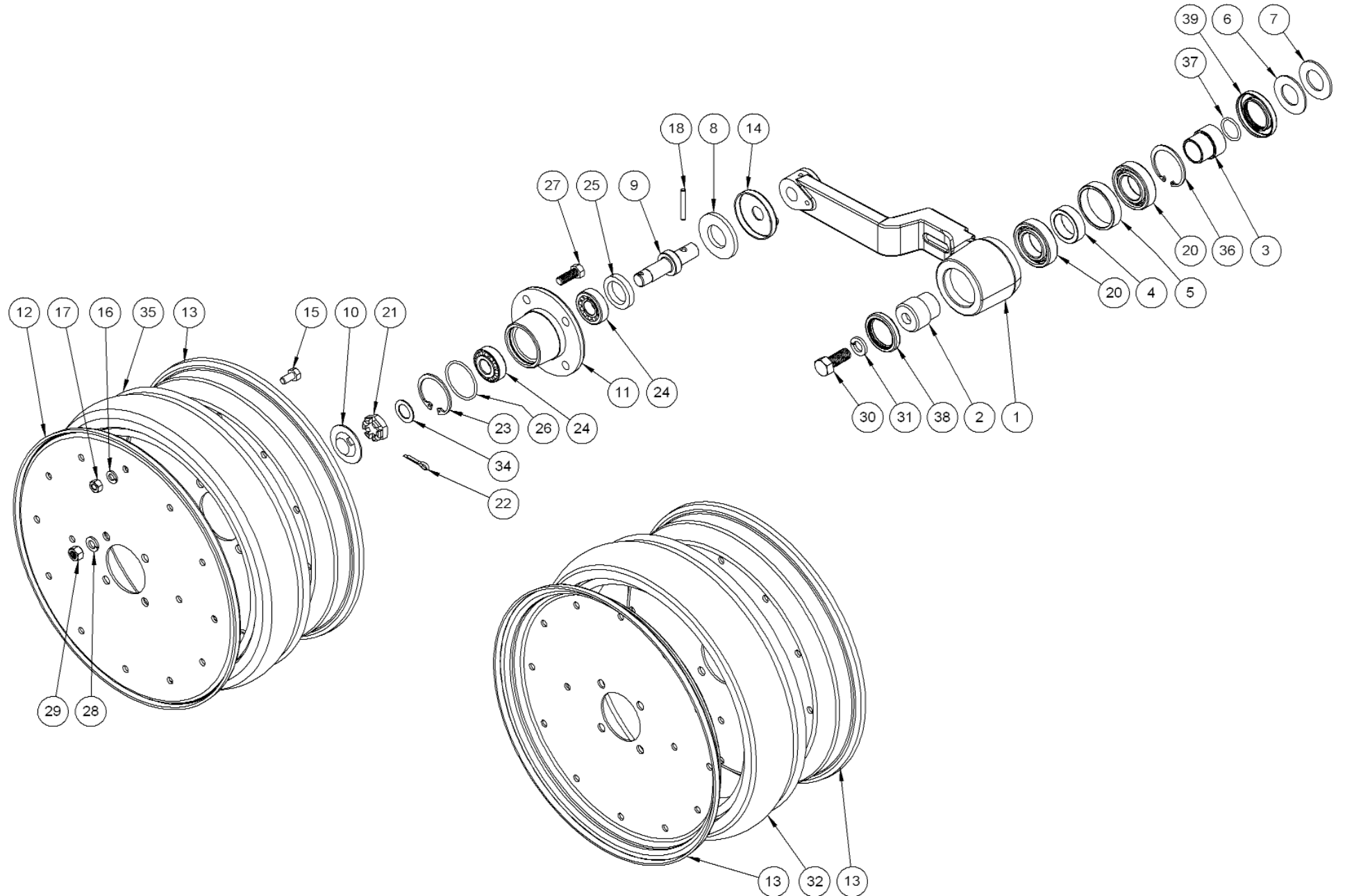


HYDRAULIC CIRCUIT FOR WORKING HITCH AND AUGER - 1 FRAME MACHINE

Item	Code Number	Description	Item	Code Number	Description
1	18.43.01.039	Protector cap - BTHP 1/2"	22	16.64.322.01	Strap - rear quick-attach coupling support
2	18.43.01.018	Quick-attach coupling - 1/2" NPT	23	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°	24	18.02.10.008	Lock washer - 5/8" double-chrome coated
4	18.43.04.161	90° long elbow fitting - Male thread 9/16" UNF JIC 37° both ends	25	18.16.10.008	Hex nut - BSW 5/8" double-chrome coated
5	18.43.04.113	90° elbow fitting ,Male thread 9/16" UNF JIC 37° both ends	26	18.43.05.131	Hose 3/8" SAE 100 R2 AT x6300 - Male thread 1/2" NPT - swivel 3/4" UNF JIC37°
6	18.43.05.123	Hose -1/4" SAE 100 R2 AT x 630 - 90° swivel 9/16" JIC 37° both ends	27	18.43.03.105	Hydraulic pipe 3/8" x 780 - Male thread, 9/16" UNF JIC 37° -swivel 9/16" UNF JIC37° extension for 16 rows at 525mm
7	18.43.03.102	Hydraulic pipe 3/8" x 2840 - Male thread 9/16" UNF JIC 37° - Right 90° elbow fitting, Male thread 9/16" UNF JIC37° for 16 at 400	28	18.43.04.164	Protector cap - BTMP 1/2"
8	18.43.03.103	Hydraulic pipe 3/8" x 2840 - Male thread 9/16" UNF JIC 37° Left 90° elbow fitting -Male thread 9/16" UNF JIC37° for 16 at 400	29	16.64.317.00	U-bolt - hoses holder anchorage
7	18.43.03.116	Hydraulic pipe 3/8" x 1678 - RM 9/16" UNF JIC 37° - 90° right elbow fitting Male thread, 9/16" UNF JIC37° for 10 at 400	30	16.64.316.00	Bracket - hoses holder
8	18.43.03.117	Hydraulic pipe 3/8" x 1678 - Male thread 9/16" UNF JIC 37°- Left 90° elbow fitting, Male thread 9/16" UNF JIC37° for 10 at 400	31	18.43.07.008	Hoses support - 3/8" R2 AT
7	18.43.03.118	Hydraulic pipe 3/8" x 3065 - Male thread 9/16" UNF JIC 37° - right 90° elbow fitting, Male 9/16" UNF JIC37° for 14 at 525	32	18.03.10.155	Hex head bolt - BSW 5/16" x 4" double-chrome coated
8	18.43.03.119	Hydraulic pipe 3/8" x 3065 - Male thread 9/16" UNF JIC 37° - 90° elbow fitting - Male thread 9/16" UNF JIC37° for 14 at 525	33	18.37.01.014	Lock nut - 5/16"
9	18.43.04.162	Adapter w/restrictor - Ø1mm Male thread 1/4" NPT- Male thread 9/16" UNF JIC37°	34	18.43.07.009	Hoses support - 1/4" R2 AT
10	18.43.01.833	Cylinder - Ø2" hitch operation	35	18.03.10.151	Hex head bolt - BSW 5/16" x 3" double-chrome coated
11	18.03.10.079	Hex head bolt - BSW 5/8" x 2 1/2" double-chrome coated	36	18.02.10.004	Lock washer - 3/8" double-chrome coated
12	18.37.01.012	Lock nut - 5/8"	37	18.16.10.004	Hex nut - BSW 3/8" double-chrome coated
13	16.64.323.00	Cylinder/hitch spring guide linkage - 1 module machine			
14	16.64.170.00	Bushing - stop-end for hitch adjuster spring			
15	18.01.10.009	Flat washer - 3/4" double-chrome coated			
16	18.38.01.272	Spring - cylinder closure, shock absorber			
17	18.38.01.276	Spring - cylinder opening, shock absorber - 1-module machine			
18	18.37.01.015	Lock nut - 3/4"			
19	18.43.05.129	Hose 1/4" SAE 100 R2 AT x 1700 - swivel 9/16" JIC 37° both ends			
20	18.43.04.163	Adapter Male thread 3/4" UNF JIC37° - Male thread 1/2" NPT			
21	18.43.04.169	Quick-attach coupling - 1/2" NPT			

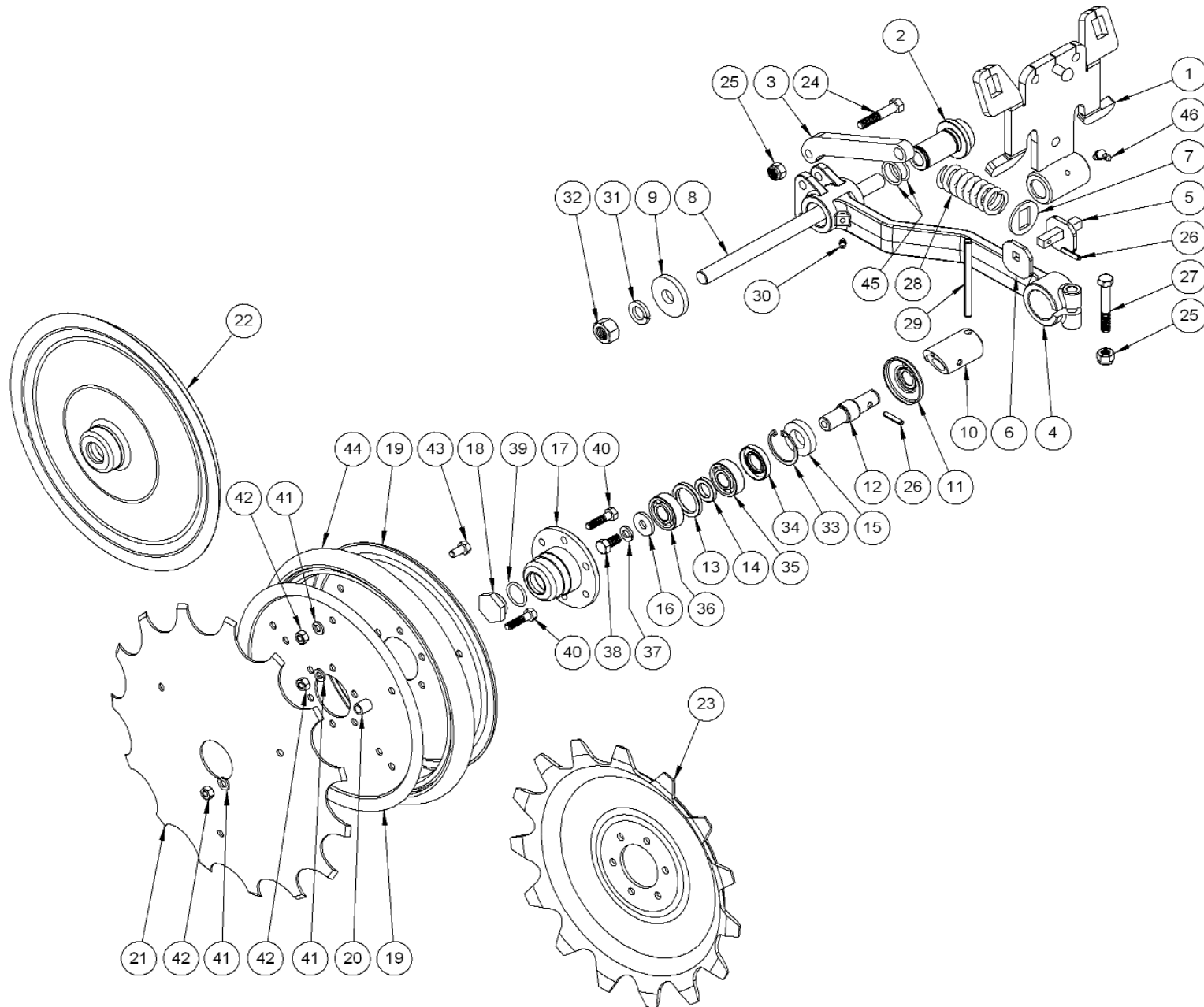


NOTE: This set is repeated in all the modules. Therefore the 1 module machines have 1, and 2 modules machines have 2, but always the same, varying only the long of the hoses N°5.



GAUGE WHEELS WITH BEARINGS (NEW MODEL)

Item	Code Number	Description	Item	Code Number	Description
1	16.65.357.01	Right arm - gauge wheel w/bearing	34	16.30.179.00	Shim washer
1	16.65.356.01	Left arm - gauge wheel w/bearing	35	18.36.03.004	Semi-pneumatic tire 2 7/8" x 15"
2	16.65.390.10	Outer bushing - retaining seat and bearing stop-end	36	18.32.01.043	Seeger ring 55.l
3	16.65.393.10	Inner bushing - retaining seat and bearing stop-end	37	18.34.01.046	O'ring 2-119
4	16.65.392.10	Small bearing spacer	38	18.34.01.179	Retaining ring SAV 5427
5	16.65.391.10	Large bearing spacer	39	18.34.01.180	Retaining ring DBH 8660
6	16.65.394.01	Shim washer - 2mm - gauge wheel arm			
7	16.65.395.01	Shim washer -2.5mm- gauge wheel arm			
8	16.30.264.10	Washer - gauge wheel hub housing			
9	16.30.123.01	Gauge wheel shaft			
10	16.30.269.00	Hub shield -gauge wheel			
11	16.30.261.00	Hub			
12	16.64.165.10	Flat half rim - gauge wheel 2 7/8"			
13	16.30.645.10	Half rim			
14	16.30.263.01	Hub housing -gauge wheel			
15	18.03.10.016	Hex head bolt BSW 5/16" x 5/8" double chrome			
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 006 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	Retaining ring 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			
32	18.36.03.009	Semi-pneumatic tire 3 1/2" x 15"			



INDEPENDENT CLOSING WHEELS

Item	Code number	Description	Item	Code Number	Description
1	16.65.396.00	Support - closing wheels arm holder	29	18.26.01.038	Spring pin 8 x 100
2	16.65.398.01	Bushing - closing wheels arm pivot	30	18.29.01.001	Straight grease nipple 1/4" NF
3	16.65.401.00	Closing wheels download spring guide	31	18.02.10.008	Lock washer 5/8" double-chrome coated
4	16.65.397.00	Arm -independent closing wheels ruedas	32	18.16.10.008	Hex nut BSW 5/8" double-chrome coated
5	16.65.403.00	Cam - download adjustment and closing wheels shaft	33	18.32.01.010	Seeger ring 40.l
6	16.65.406.00	Cam - closing wheels download adjustment	34	18.34.01.082	Retaining ring DBH 5268 LX
7	16.65.402.01	Washer - spring stop end	35	18.33.01.001	Bearing 6203
8	16.65.399.01	Rod -pivoting arm bushing guide	36	18.33.01.033	Bearing 6203 2RS
9	16.65.400.01	Washer - closing wheels arm seat	37	18.02.01.004	Lock washer 3/8"
10	16.30.265.01	Seed press wheel shaft holder	38	18.11.01.030	Hex head bolt SAE 3/8" x 3/4"
11	16.30.268.01	Hub housing	38	18.56.01.030	Hex head bolt SAE (left thread) 3/8" x 3/4"
12	16.65.405.01	Right shaft - independent closing wheel	39	18.34.01.046	O'ring 2-119
12	16.65.404.01	Left shaft - independent closing wheel	40	18.03.10.019	Hex head bolt BSW 5/16" x 1 1/4" double-chrome coated
13	16.30.303.00	Large bearing spacer	41	18.02.10.003	Lock washer - 5/16" double-chrome coated
14	16.30.205.00	Bearing spacer	42	18.16.10.003	Hex nut BSW 5/16" double-chrome coated
15	16.30.270.10	Felt washer - press wheel	43	18.03.10.016	Hex head bolt BSW 5/16" x 5/8" double-chrome coated
16	16.10.295.00	Washer - bearing holder	44	18.36.01.041	Semi-neumatic tire 1" x 12" soft -round
17	16.33.320.00	Right hub - closing wheel	44	18.36.01.079	Semi-neumatic tire 1" x 12" soft - trapezoid
17	16.33.323.00	Left hub - closing wheel	45	18.34.01.032	O'ring 2-116
18	16.10.301.00	Right hub shield - double disks	46	18.31.01.001	90° Curved straight grease nipple - 1/4" NF
18	16.10.300.00	Left hub shield - double disks			
19	16.30.201.10	Half rim - press wheel			
20	16.30.220.01	Rear disks spacer			
21	16.30.219.10	14" rear wheels concave disk			
22	16.65.280.00	Iron right closing wheel			
22	16.65.279.00	Iron left closing wheel			
23	16.65.076.10	Toothed closing disk			
24	18.03.10.034	Hex head bolt BSW - 3/8" x 1 3/4" double-chrome coated			
25	18.37.01.011	Lock nut 3/8"			
26	18.26.01.030	Spring pin 5 x 32			
27	18.03.10.037	Hex head bolt BSW 3/8" x 2 1/2" double-chrome coated			
28	18.38.01.291	Spring - independent closing wheels arm			