



Toolbar system



**Read this manual carefully prior to operating the machine
and store with the machine.**

SUMO Serial NO:



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York
YO424RG
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EC DECLARATION OF CONFORMITY (RL 2006/42/EC)

MANUFACTURER: Sumo UK Ltd

ADDRESS: Redgates, Melbourne, York, YO42 4RG.

COUNTRY: United Kingdom

PRODUCT DESCRIPTION: Sumo DD

MODEL: DD toolbar

DATE: March 2015

This product conforms to all the essential health and safety requirements of the EC Directive 2006/42/EC



This document is approved by:

NAME: Mr. Shaun Wealleans

POSITION: Technical Director

SIGNATURE:

PLACE: Sumo UK Ltd, Redgates, Melbourne, York, YO42 4RG, United Kingdom.

DATE: March 2015

Machine Registration

Warranty claims will NOT be accepted unless this machine registration form is completed and returned to the address below:

Sumo UK Ltd
Redgates
Melbourne
York
YO42 4RG

Serial number:
Machine:
Model:
Delivery date:

I confirm that I have received and read the Operator's Manual for the machine written above and I have been instructed by a Sumo dealer or trained operative in the safe and correct operation of this machine.

.....
Signed by dealer or operative Print name

Sumo Dealer	Customer
Name:	Name:
Address:	Address:
.....
.....
Postcode:	Postcode:
Tel:	Tel:
Email:	Email:

I am aware that a warranty claim can only be carried out if this form is filled in and returned to Sumo UK Ltd once initial instruction has taken place.

Date:

.....
Receiver's signature Print name

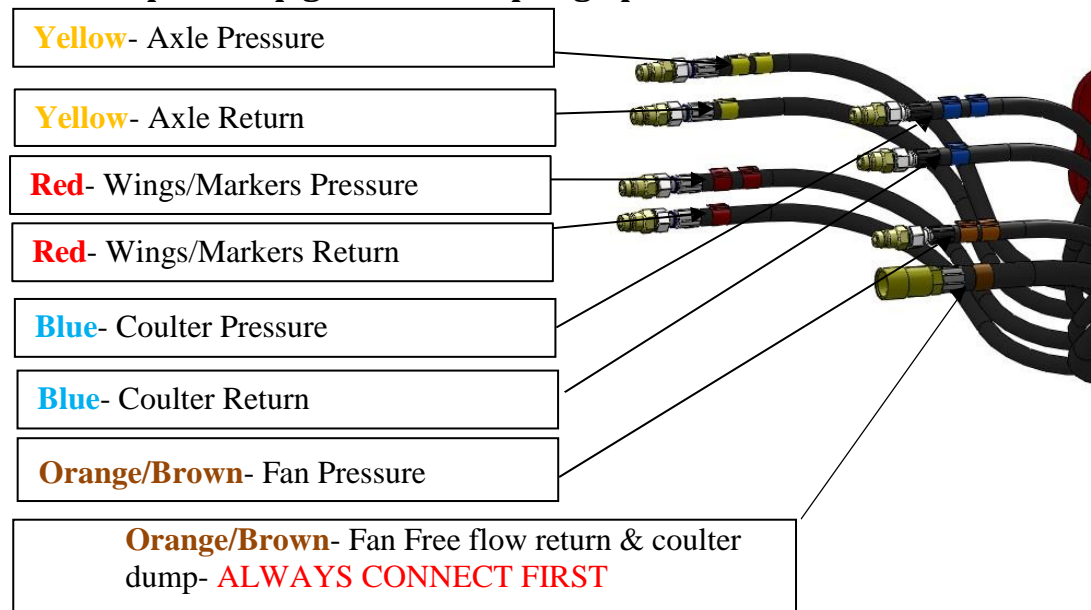
Initial set-up operator check list

It is the owner / drill operator's responsibility to set up the drill for:

- 1. Sowing depth according to conditions in each soil type and pre worked condition**
- 2. Tramline bout number to suit tramlines**
- 3. Tramline track width**
- 4. Marker width setting to allow matching of bouts (3-6m)**
- 5. Operation of half width shut off (standard on 6m and above via RDS Unit)**
- 6. Folding the machine in and out of work without damage**
- 7. Correct calibration procedure**

It is also the owner / operator's responsibility to check the operation of the various functions of the machine between each hopper fill, or at least once every hour to check the machine is operating correctly. A good practice is to park on the headland with coulters just above the ground, then with the fan running press the calibration button for a few seconds. This normally will leave a small pile of seed on the ground beneath each coulter and is a good indication the drill is working properly. If after this test a number coulters has no seed beneath them that is a clear indication there may be a blockage within the pipes.

Initial Pipe Set-up guide for coupling up the Sumo DD



Two cable ties represents - Pressure

One cable tie represents – Return

When removing pipes from the tractor make sure all hydraulics are fully open or fully closed before applying float on the tractor.

The wings are fitted with check valves on the rams which allows them to be depressurised without letting the wings unfold.

The changeover tap for the wings and bout markers (4m, 4.8m and 6m versions only) is located on the front of the chassis beneath the hopper access steps.

FREE-FLOW RETURN



Damage will occur to either the fan motor seal or the oil cooler (oil coolers are only fitted to seed & fertilizer machines) if the free-flow return hydraulic line is not connected to the tractor first.

Any movement of the fan or the coulters immediately pressurizes the free-flow return line. This includes just lowering the machine to the floor to allow the coulters to “take some weight”. Doing this will displace oil from the coulters rams and pressurize the free-flow line, which may result in component damage.

When connecting the free-flow line it is necessary to observe the back pressure present. A gauge for this reason is provided, mounted on the front of the toolbox. The maximum return pressure is 15bar. Running with a pressure higher than this will result in damage so it is then necessary to take steps to reduce the restrictions in the free-flow line, usually at the point where it enters the tractor. A broken gauge indicates the system has been over-pressurised and therefore cannot be a warranty claim.

Introduction

Prior to operating the machine, these instructions must be read and complied with. This will reduce the chance of injury, reduce the chance of machine misuse which could result in failure of parts and significantly reduce the service life of the machine.

Sumo will not accept liability for any injuries or damage caused from failing to comply with the instructions within this manual.

The instructions within this manual will enable the operator to operate the machine in a safe manner and reduce risk to themselves and persons around the machine while it is in operation.

As well as reading the instructions of operation contained within this manual, a trained technician or dealer should also instruct you on the correct and safe use of the machine and maintenance of the machine to ensure a long service life.

By signing the document contained at the front of this manual you are accepting the receipt of this manual. The warranty starts on the day of delivery of the machine.

The illustrations within this manual may be subject to change and may differ from the machine you have received.

Warnings

Within these instructions are warnings of safety to protect the health of the user and the persons surrounding the machine during its operation.

Please read and ensure that these warnings are complied with.

The designations “left”, “right”, “front” and “rear” refer to the direction of travel, as seen in the direction of travel, as the operator is sat in the driving seat looking forward.

Service

Sumo endeavour to ensure that the machine leaves the factory in perfect working order, if this is not the case then please let us know as soon as possible.

If you encounter any issues with your machine please contact us or your Sumo dealer, and we will work to resolve the issue as quickly as possible.

To allow us to process the problem quickly we will need the following information:

- Customer name and address
- Sumo dealer name
- Machine model
- Serial number
- Area covered by machine
- Type of problem

Warranty claims

Any warranty claims must be submitted through your local Sumo dealer.

If damage to the machine has been caused by external influences then the warranty claim cannot be honoured. Influences such as:

- Excessive wear of wearing parts
- Missing wearing parts
- Excessive operating speeds
- Excessive transport speeds

- Incorrect set up of machine (hydraulic connections, non-even depth adjustment)
- Failing to comply with safety and operating instructions
- Neglect of maintenance of the machine.

Safety and Responsibility

The following warnings and safety instructions apply to all sections of these operating instructions.

The machine has been designed and manufactured to meet all of the relevant safety regulations. These regulations along with the instructions provided within this manual will ensure that risk of injury to yourself or others is minimised.

Please read **ALL** of these safety instructions prior to the first use of the machine to prevent safety issues or potential machine damage to the machine through incorrect use.

Intended use

Any use outside of the intended use of the machine can lead to injury or persons operating or within the area of the machine during operation and can also lead to invalidating the warranty. The machine is intended to be used for normal soil cultivation in agricultural practices.

Any faults with the machine should be rectified prior to use of the machine. Faults can cause safety issues and can also cause the machine to work in an unsatisfactory manner.

Only qualified persons may operate this machine, they must be familiar with the

machine and familiar with the dangers of the machine.

Spares

The machine has been designed to take Sumo manufactured spares; non-genuine parts may damage the machine as they are untested and not recommended for use with the Sumo machine. Sumo will not honour warranty claims if deemed to be caused by the use of non-genuine parts or accessories.

Safety stickers should always be replaced along with the components they are attached to; this will ensure the safety of the machine is not compromised.

Qualification of operators

Use of the machine by untrained operators can lead to injury or even death. To prevent accidents occurring ensure that operators have been trained by a Sumo dealer or technician. The following requirements must be met:

- Personnel must be of statutory minimum age in the country of operation.
- Ensure only authorised persons operate or work on the maintenance of the machine.
- The person has read and understood these instructions in full.
- The person is fully competent in operating the machine towing the equipment.
- Local traffic laws are abided by
- A person being instructed on the use of the machine must be done so under the instruction of a trained individual.

The owner of the machine must ensure that these requirements are met and the area of responsibility is met, train any persons intending on using the machine to ensure they are up to the required standards and ensure that they have read and understood this manual.

Machine operators

These persons have been trained by the owner or dealer to use and set up the machine in the field, transport the machine on the road, maintain the machine and troubleshoot errors with the machine.

Sumo trained operators

Higher training by Sumo is required for the following operations; loading for truck transportation, commissioning of new machines, advanced troubleshooting and repair.

Any repair work to structural components of the machine must be carried out by Sumo or a workshop approved by Sumo, otherwise the warranty will be compromised.

Children

Young persons are less able to react to danger and are unlikely to have enough experience to react to situations so as such should be kept clear of the operating zone of the machine. Children should NOT be left in the tractor even when the machine has been shut down as hydraulics can still be operated if they are a mechanical spool. The minimum age of children riding on agricultural equipment locally in the country of operation must be adhered to.

Personal Protective Equipment (PPE)

To protect the user and persons surrounding the machine during operation suitable PPE must be worn.

Tight fitting clothes or overalls should be worn to ensure no loose clothing is able to get caught in the machine while it is in operation, this includes long hair, which should be tied up or placed in a hair net.

Suitable footwear should be worn, steel toe capped shoes/boots should be worn to protect when components are being lowered to the floor.

Eye protection such as safety glasses or goggles must be worn during the changing of wearing components as these may be under pressure and can release suddenly, and when working with hydraulic components as the pressure may not have been released properly and could release suddenly.

Respiration equipment should be used when working on an area of the machine that has been in contact with seed dressing or fertiliser as there could be deposits of dust that can be harmful, please refer to seed or fertiliser manufacturers labels for further information on this PPE requirement.

Jewellery such as rings, bracelets and watches should not be worn while operating this machine as it has the ability to get caught and cause further injury to the operator.

Hand protection should be worn during the attachment of the machine to a trac-

tor as hydraulic oil can cause injury if it is under pressure as it can pierce the skin and can cause serious health problems if it enters the blood stream.

Fertiliser and dressed seed

Inappropriate handling of fertiliser and dressed seed can cause poisoning or even death.

Follow the information given in the safety data sheet of the manufacturer. If necessary ask the dealer for the corresponding safety data sheet.

Determine and provide the personal protective clothing as specified by the manufacturer.

Road transportation

When the machine is being transported on the road the local road regulations must be adhered to, regulations such as transport width and height. The route planned should also be considered to ensure that the machine will fit under low bridges and between narrow gaps.

The way in which the Sumo DD is configured means the transportation wheels are at the very rear of the machine, meaning that it cuts corners, ensure that a wide swing is taken to tackle corners to prevent damage being caused to the machine or the machine fouling other vehicles on the highway.

When transporting the machine on the highway it must be folded into the correct transportation position.

Operation Safety

This manual contains basic advice, which should be observed during setting-up, operation and maintenance. Therefore, this operating manual must be read by the personnel concerned prior to starting up and using the machine and be accessible at all times.

If safety instructions are not complied with, then this can lead to the risk of injury to yourself and others as well as damage to the environment or the machine. Non-compliance to the safety instructions can also lead to any warranty claims becoming invalid.

General Safety

To avoid serious injury please ensure that the tractor keys are removed before making any adjustments and maintenance.

Warning signs and other notices on the machine provide important information for the safe operation. Observing them will serve your safety. Before commencing work, make yourself familiar with all the equipment and controls as well as their functions. The user should wear close-fitting clothing. Keep the machine and in particular the bearings clean to avoid risk of fire.

Check around the machine before moving off or starting up (watch out for children!). Make sure you have adequate all-round visibility. Always match your speed to the local conditions. Avoid sudden turning manoeuvres when driving uphill or downhill or when travelling across a slope. Observe the respective regulations when using public roads. Take into account the length, the wide overhang, the folded

height and the sideways force acting on the machine when turning or negotiating curves.

Commissioning

Before operation of the Sumo DD, a full commissioning should take place to avoid the potential for severe or even fatal accidents. Whilst the Sumo DD undergoes a thorough inspection before leaving the factory, it cannot be guaranteed that it is safe to use for immediate operation. This could be due to a number of factors including tampering or the transport environment it has been delivered in. It is imperative that full instruction should be undertaken by an authorised SUMO dealer or by an appropriate SUMO UK technician, on initial operation. It is policy that a machine should be registered for use by the end user on delivery of the machine by Sumo UK or any authorised SUMO dealer. Any initial operation prior to an official commissioning of the machine that leads to damage of the machinery, or the serious/fatal injury to personnel/third party claimants will not be the responsibility of SUMO UK. It is highly recommended that prior to initial/daily use that nuts and bolts be checked and tightened appropriately on vital components to avoid unnecessary damage and or injury. **Please ensure that on initial drill use that it is recalibrated 3 times consecutively after the 1st hour, and the process repeated on the 5th hour.**

Avoiding damage to the machine

Avoiding unnecessary damage can both prolong the life of the machine and ensure that the machine can be operated safely throughout its life. Damage to the

machine can result in serious or fatal injury to operators and third parties. Care should be taken in identifying damaged parts and appropriately replacing the damaged items with Sumo genuine parts. Unnecessary damage can be avoided if the machine is regularly serviced and maintained within SUMO guidelines. Items that should be inspected daily as a good safety practice are:

- Hydraulic System
- Brakes
- Hitch System
- Lighting
- Safety Mechanisms

If a particular component is showing signs of damage that poses a risk to operator and/or third party safety, operation must either not commence or cease until the fault is assessed and rectified by a competent/qualified person(s).

Retrofitting

Structural changes and extensions can adversely affect the functionality and the operational safety of the machine. This can lead to severe or even fatal physical injuries.

- Do not make any structural changes or extensions which have not been approved by SUMO UK.
- Structural changes and extensions must only be made in an authorised workshop or by an operator who has been instructed by SUMO UK.
- Comply with country specific instructions for weights, weight distribution and dimensions.

For retrofits influencing the weight or weight distribution one must check and comply with the regulations concerning towing facilities, support and axle loads.

Hitching and Unhitching

Faulty hitching up of the machine to the tractor causes dangers, which could result in severe accidents. Hitching and unhitching of the machine should only take place on a secure and level surface with chocks placed under the machine transport wheels to prevent machine rolling away.

Never allow persons to stand between the tractor and the SUMO machine whilst the tractor is manoeuvring into position. Once the tractor is in position and secured against rolling away by means of parking brake and/or wheel chocks, can the operator/third party secure the machine to the tractor.

Hydraulic System

The hydraulic system is under high pressure. Hydraulic oil escaping under pressure can penetrate the skin and cause serious injuries. In the event of injury, consult a doctor immediately.

The machine's hydraulic system has several functions, which can cause injury to persons or damage to the machine, if operated incorrectly.

- Do not connect hydraulic hoses to the tractor, before both hydraulic systems on machine and tractor are de-pressurised.
- The hydraulic system is under high pressure. Check all lines, hoses and screwed connections regular-

ly for leaks and any visible external damage!

- Use only appropriate means when searching for leaks. Repair any damage immediately! Oil sprays can cause injuries and fire!
- Power sockets and connectors on the hydraulic connections should be marked in order to exclude operating errors.
- In the case of injury, contact a doctor immediately!
- Secure and lock the control unit on the tractor, if not in use!

Pressure Accumulator

The hydraulic system uses high pressure accumulators, which can present a danger if tampered with or misused. This includes drilling, welding or any other process that could compromise the safety of the accumulator. It is recommended that the operator or any third party does NOT try to dismantle or adjust the accumulator in any way. If the accumulator fails it should be changed under the instruction of SUMO UK.

Brake System

Brake systems are usually one of two formats, either pneumatic or hydraulically operated. Each system should be checked daily before use to determine if the braking is fully functional. Any adjustments or modifications to the braking system should be carried out by or under the instruction of SUMO UK.

Overhead power lines

Special care should be taken when folding and un-folding a machine in the proximity of overhead power lines. To prevent se-

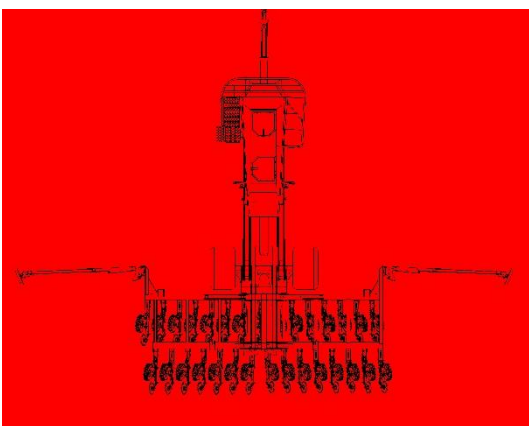
vere injury or damage to the machine always keep a safe distance from pylons and powerlines when unfolding. When the machine is being operated it is important to manoeuvre around pylons and overhead power lines carefully to avoid damage to pylons that may even cause a pylon collapse resulting in severe or fatal injury and/or machine electrical damage. A machine should also never be parked or accessed beneath powerlines as this could cause a voltage flashover leading to severe/fatal electric shock or even fire.

Environmental Protection

Operating fluids and such as hydraulic oil and lubricants are damaging to the environment. Special care should be taken to ensure that operating fluids are not leaking to ensure safe operation of the machine and damage to the environment. When servicing of the machine it is important that the disposal of used operating fluids is done responsibly.

Danger Zone

The area marked red indicates the danger zone of the machine.



The danger zone around the machine poses the following endangerments:

- Accidental operation of the hydraulic system can trigger dangerous movements of the machine.
- Defective or not correctly fastened electric lines can cause electric shocks.
- With the drive still running, machine parts may rotate or swing out.
- Hydraulically raised machine parts can lower slowly and unnoticed.

Failing to pay attention to the danger zone can result in severe or even fatal physical injuries.

- Do not stand under lifted loads. Lower such loads to the ground first.
- Instruct persons to leave the danger zone around the machine and tractor.
- Before working in the danger zone of the machine or between machine and tractor: **Shut down the tractor!** This also applies for short-term inspection work. **Many accidents happen because of carelessness and running machines!**
- Pay attention to the information in all operating instructions.

Safety Stickers

Safety stickers on the machine warn of dangerous points and are an important part of the safety equipment of the machine. Missing safety stickers increase the risk of severe or even fatal physical injuries.



**No Persons to ride the machine,
risk of falling.**



**Stay clear of swinging area of re-
tractable and extendible machine
parts. Risk of crush injuries.**



**Stay clear of machine while
manoeuvring and working. Danger
of sustaining injuries.**



**CAUTION. Read manual carefully
before operation.**



**Never reach into working parts.
Risk of crush injury.**

2.0 Maintenance

Low maintenance requirements were an important design consideration when developing this drill and every effort has been made to minimise input requirements on the operator. However, there are several areas to look at to ensure the most efficient use of the machine continues.

2.1 Coulters

The condition of each coulters assembly should be regularly monitored weekly in. In particular all pivot points should be observed to ensure the grease-free polymer bushes remain tight. Any debris should be cleared from pivot points and bearings.

In addition to this, the relationship between the opener disc and the cast coulters face should be observed to ensure the gap is close enough to prevent ingress of straw and which may initiate a blockage. Proximity and angular adjustment can be made via the three bolt fine-tuning mount system.

The tungsten carbide tiles are fitted to prolong the operational life of the cast components. However, these should be routinely monitored in terms of wear.

The grease free bearings should be externally examined for debris build up as well as checking for excessive “play”.

Disc wear and position of the cast coulters in relation to height should be considered. Disc wear will directly affect the depth to which the seed is placed. As the disc wears, the cast coulters component should be lifted on its adjustment slot.

2.2 Hydraulics

After the first 5 hours work, it is advisable to check all hydraulic fittings are tight and free from leaks.

To protect the delicate internal valves and seals throughout the hydraulic circuits, it is important to clean all hydraulic hose quick release coupler (QRC) probes before inserting them into the tractor.

2.3 Greasing

The wing pivot points and each end of the wing fold rams should also be greased every 50 hours. The bout marker knuckle joint pivot and marker ram should be greased every 10 hours.

2.4 Winter storage

When machines are to be parked up for the winter period, correct storage techniques are an important part of protecting the machine and ensuring hassle free future drilling campaigns.

When the machine has finished work it should be cleaned down and washed off to remove all traces of soil and debris. When washing off, ensure bearings are not exposed to water ingress. Ideally the drill should be stored inside.

Following washing off, grease points, located throughout the machines should receive two or three pumps of grease to push water out.

When the machine is parked up, a note should be made of the wearing parts that require replacing ready for the next seasons work. The wearing parts can then be ordered in time ready for the next season's work in good time. When ordering replacement parts please have your serial number, part numbers and quantities at hand.

3.0 Hydraulic Systems

3.2 Fan Return Pressure

When connecting to a tractor for the first time, ensure the fan return pressure is below 15bar (the lower, the better). Exceeding this will result in damage to elements of the drills hydraulic system.

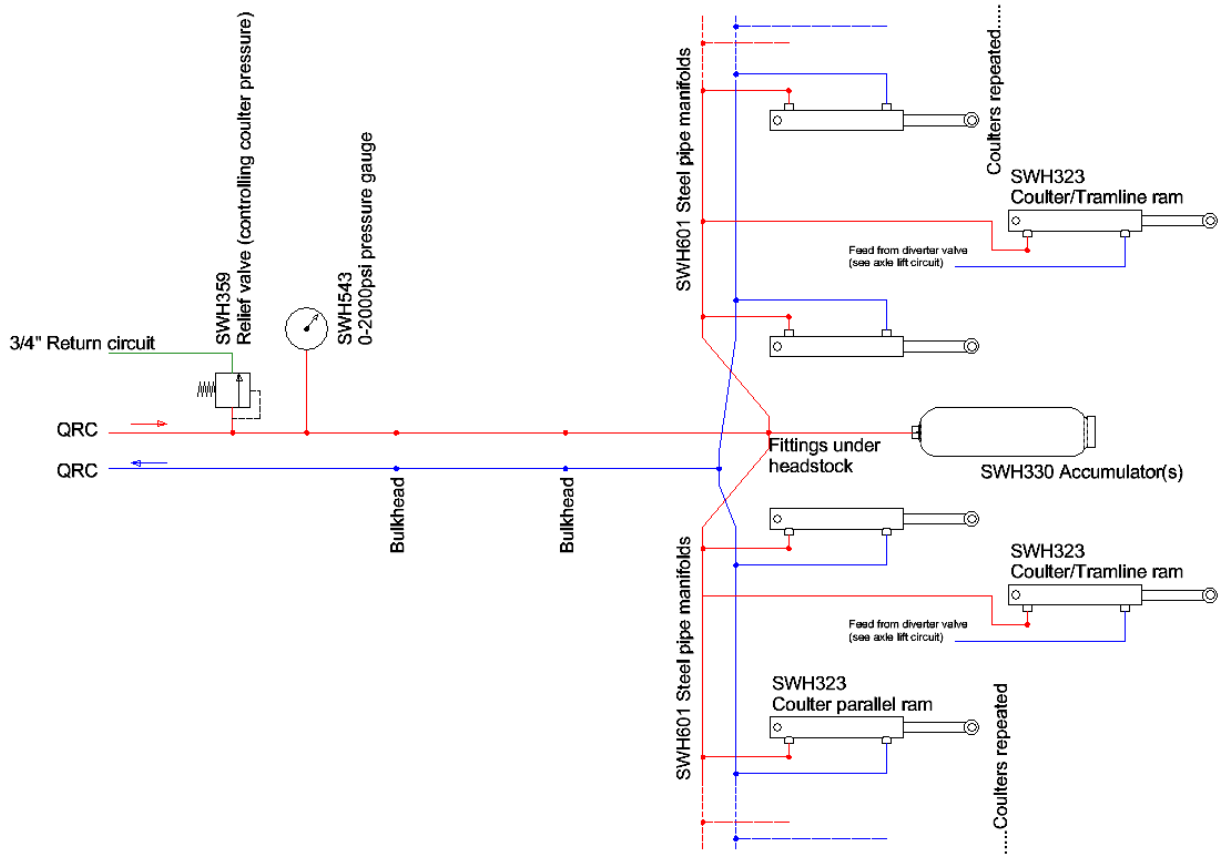
3.3 Coulters (Where applicable)

The pressurized contour-following ability of coulters operates on a constant oil flow design whereby a low flow rate is constantly replenishing oil displaced from the coulters rams by undulations and obstructions. The downward force from these coulters is governed by an adjustable relief valve which maintains the correct pressure in the circuit. Additional capacity and a guarantee of rapid response is provided in the way of accumulators.

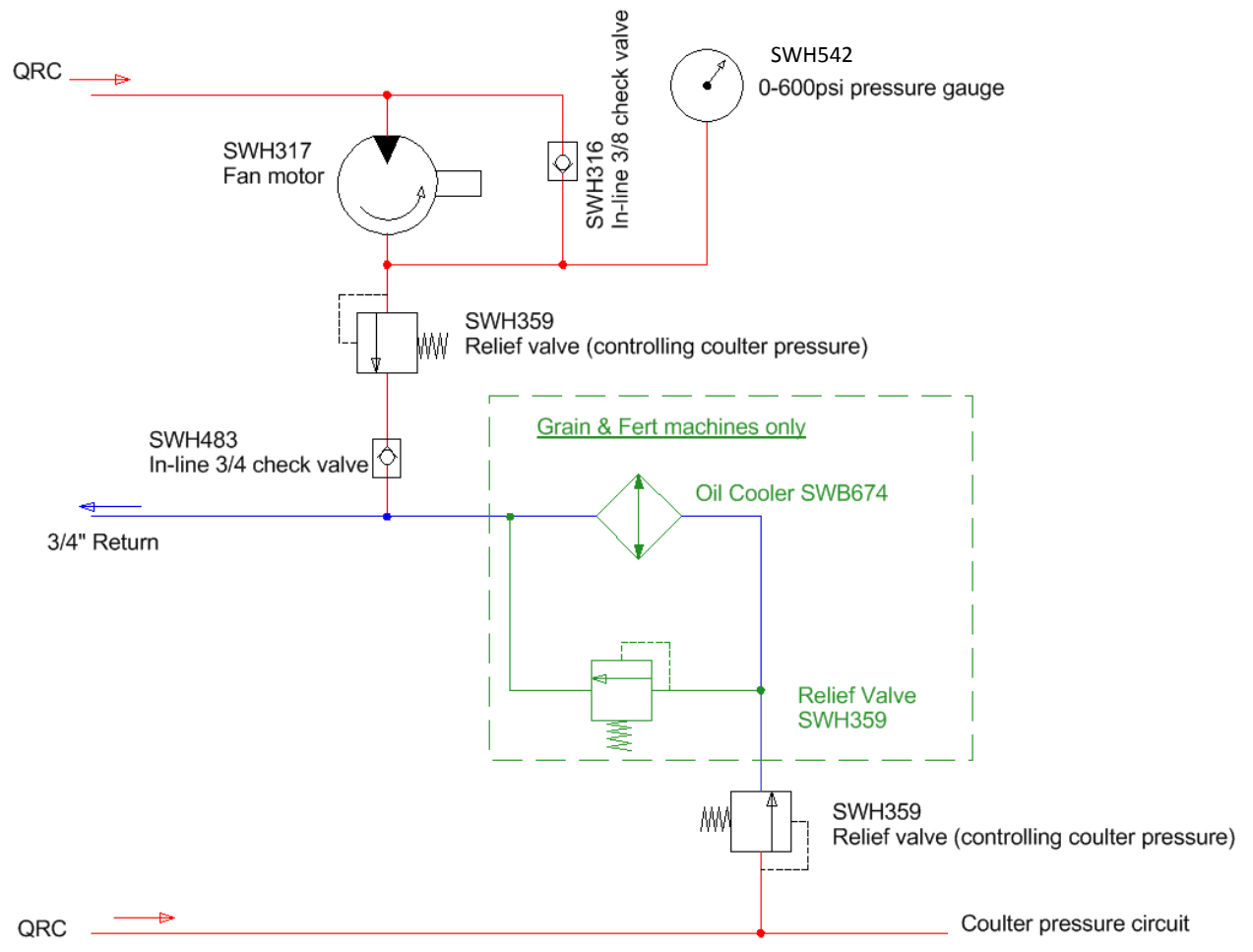
3.4 Tramlines

The tramlining system present on this machine operates by lifting two coulters out-of-work per wheeling (four in total). This is managed via the main RDS control system. When a tramline bout is initiated, the solenoid driven valve positioned on the drill headstock redirects the oil from the top 'high pressure' side of the four coulters rams to the bottom side consequently lifting those four units out of work. When the tramline bout is finished, normal hydraulic flow conditions are resumed.

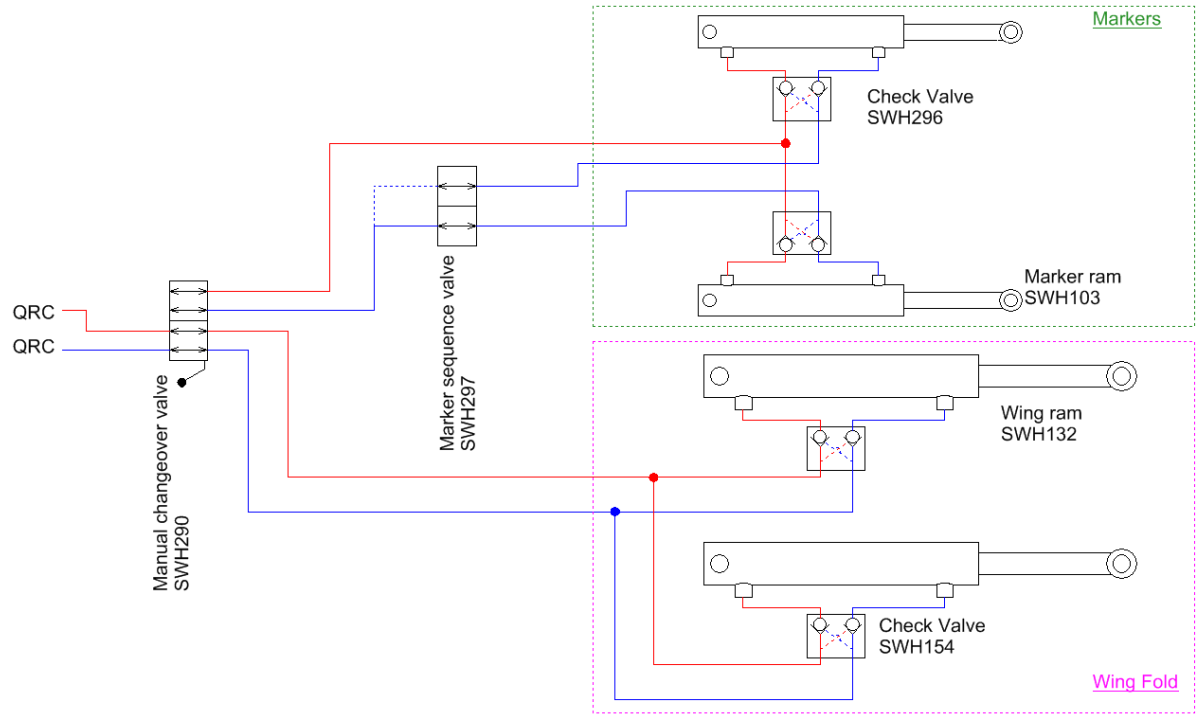
3.6 Coulter system (where applicable)



3.7 Fan Motor system



3.8 Wings/Markers system



4.4 Markers

Markers (available on 3-6m machines) are designed for marking the tractor centreline for the following bout. The distance between the first sowing row and the marker disc equals $\frac{1}{2}$ sowing width plus $\frac{1}{2}$ the seed row spacing.

Aim not to set the marker disc too aggressive as this may affect the performance of the drill.

To operate; a manual hydraulic changeover valve is used to change between wing and marker movement.

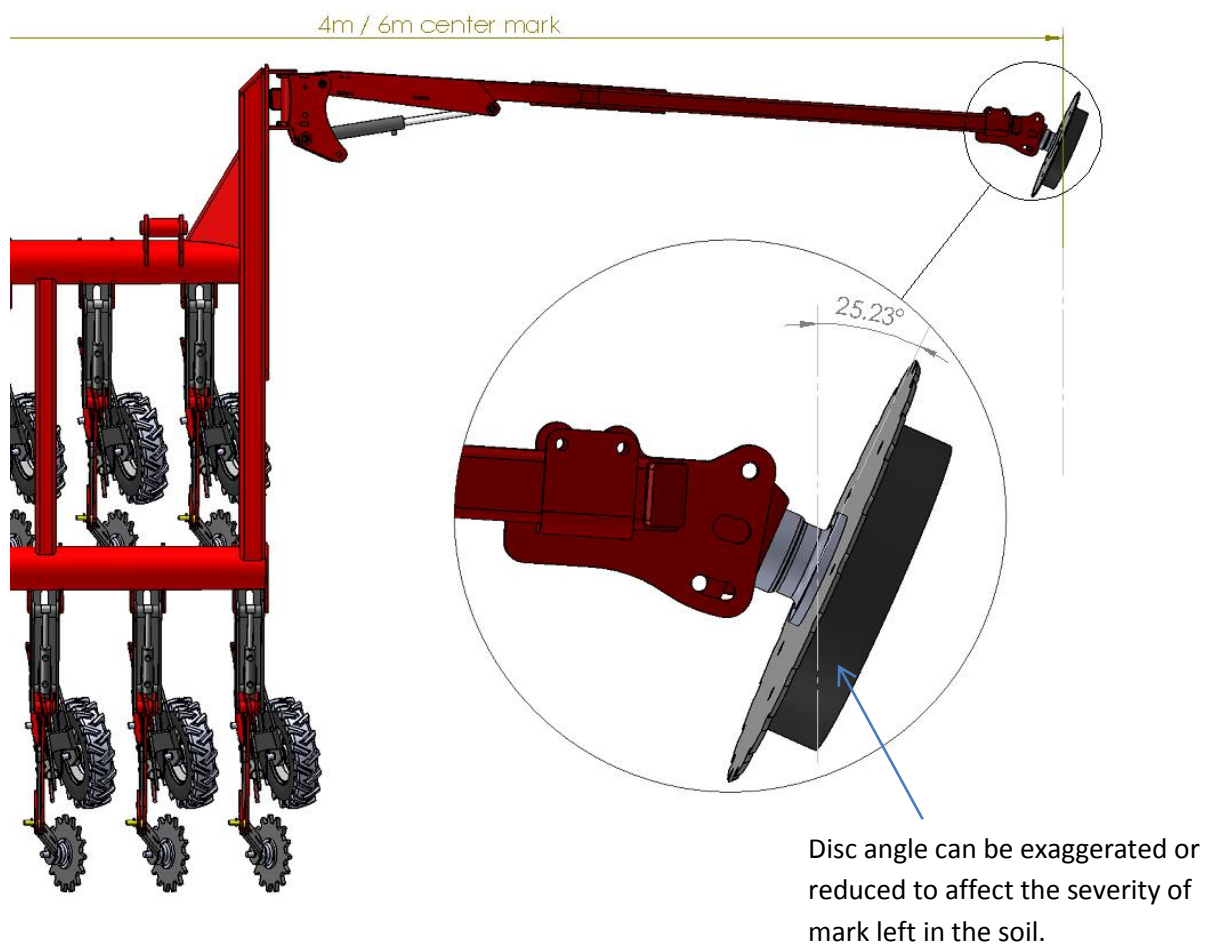


Figure 49. Marker explanation



The markers should be operated in a gentle manner, beware of obstacles when drilling; turning at the headlands should be carried out with the markers in the home position.

4.8 Coulter unit

These images explain the elements and adjustments of the DD coulter unit.

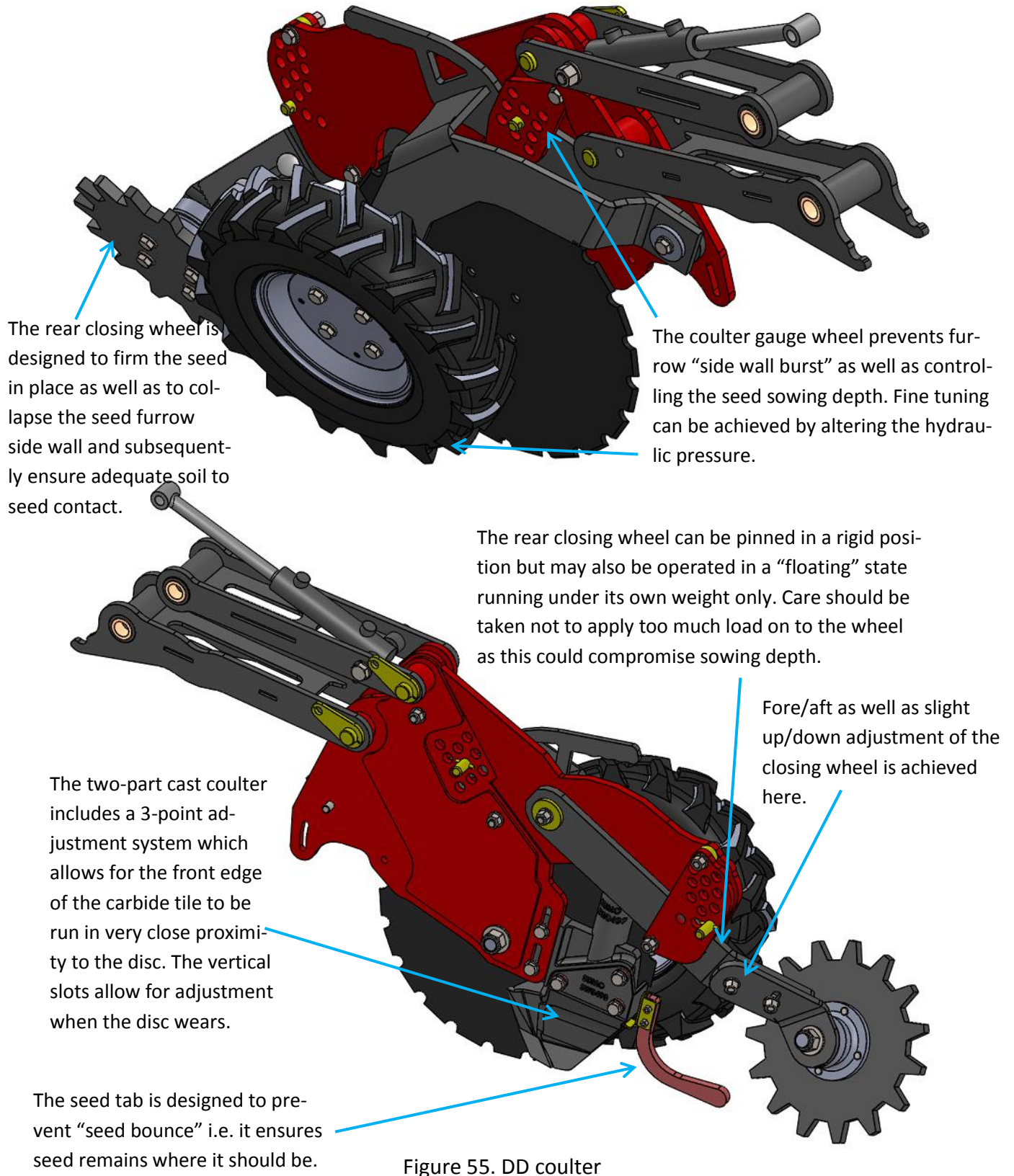
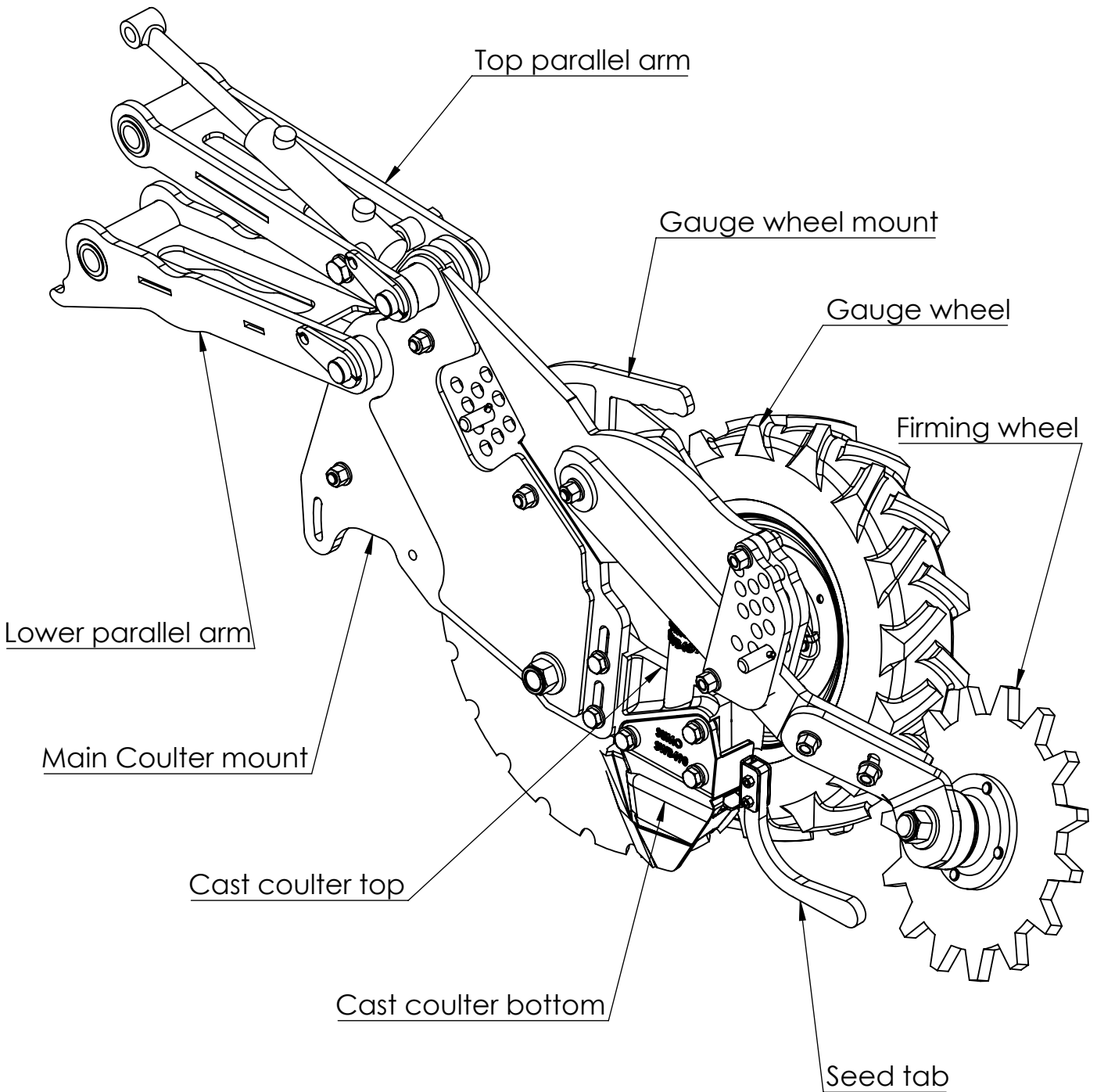


Figure 55. DD coulter

5.0 Parts Assembly overview

The following pages display exploded sub-assembly drawings containing all the common components and part numbers required as spare parts.

5.1 Coulter Unit Overview



DO NOT SCALE DRAWING

MACHINE/COMPONENT:

DD Coulter

TITLE:

Coulter Overview



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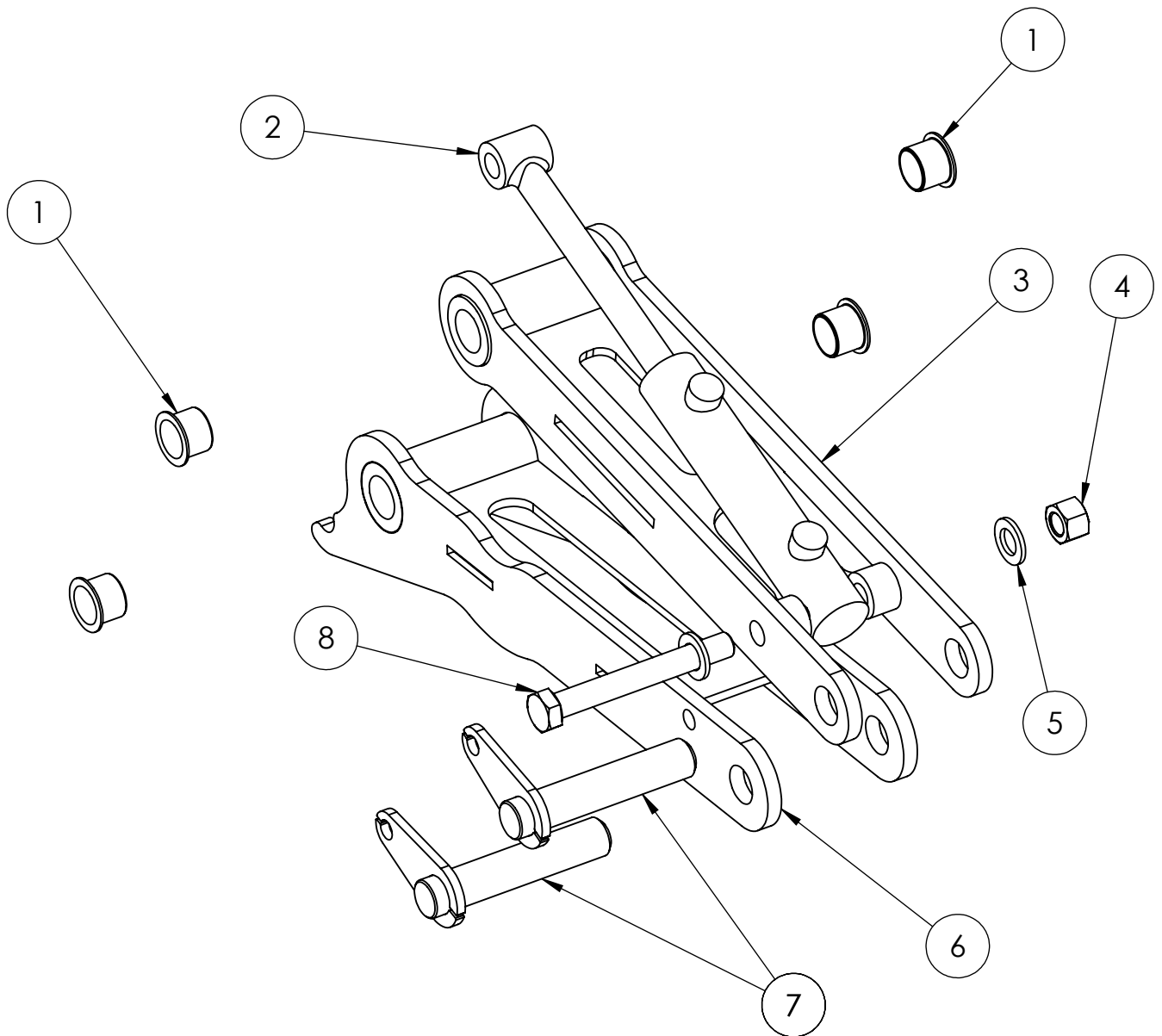
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DATE:

INITIAL: RH

5.2 Parallel arms



ITEM No.	PART No.	DESCRIPTION
1	SWB492	25mm Polymer bush
2	SWH323	700/105 Ram
3	SW2718	Top parallel arm
4	SWM16004	M16 Nylock nut
5	SWM16001	M16 flat washer
6	SW2719	Lower parallel arm
7	SW1421	25x115 tabbed pin
8	SWM16130	M16x130 bolt

DO NOT SCALE DRAWING

MACHINE/COMPONENT:

DD Coulter

TITLE:

Parallel arms



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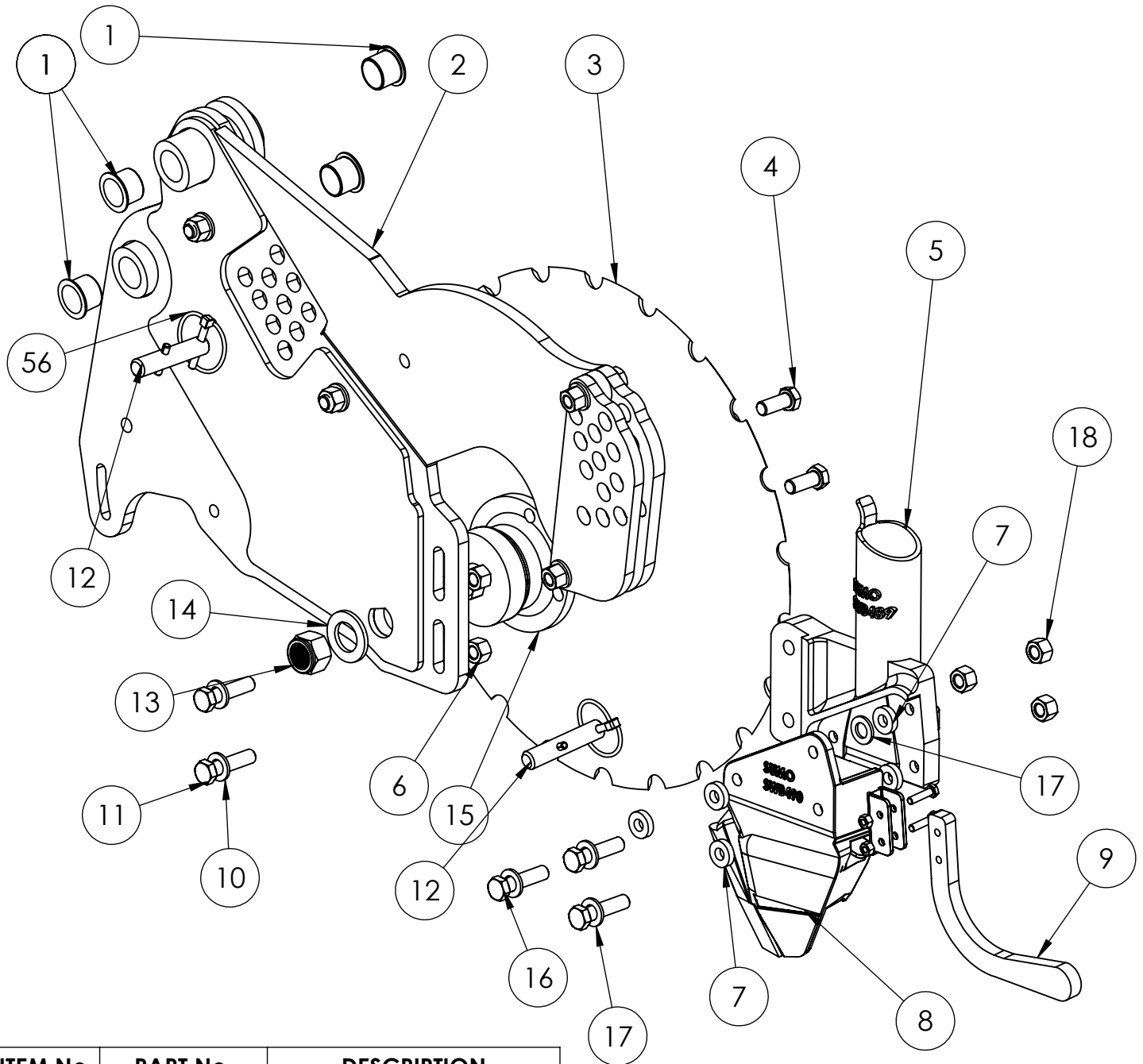
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DATE:

INITIAL: RH

5.3 Coulter body



ITEM No.	PART No.	DESCRIPTION
1	SWB492	25mm Polymer bush
2	SW2097	Main Coulter body left
	SW2512	Main coulter body right (not shown)
3	SWB442	Opener disc
4	SWM1225fine	M12x25 fine bolt
5	SWB489	Cast coulter top left
	SWB487	Cast coulter top right (Not shown)
6	SWM12004	M12 nylock nut
7	SWB794	Rubber washer
8	SWB490	Cast coulter bottom left
	SWB488	Cast coulter bottom right
9	SWB795	Seed bounce tab
10	SWM12001	M12 flat washer
11	SWM1250	M12x50bolt
12	SWP16x46	Depth pin
13	SWM22004FP	M22x1.5 nylock
14	SWM1"001	1" flat washer
15	SWB399	Bearing
16	SWM1050	M10x50 bolt
17	SWM10001	M10 flat washer
18	SWM10004	M10 Nylock nut

DO NOT SCALE DRAWING

MACHINE/COMPONENT:

DD Coulter

TITLE:

Coulter body



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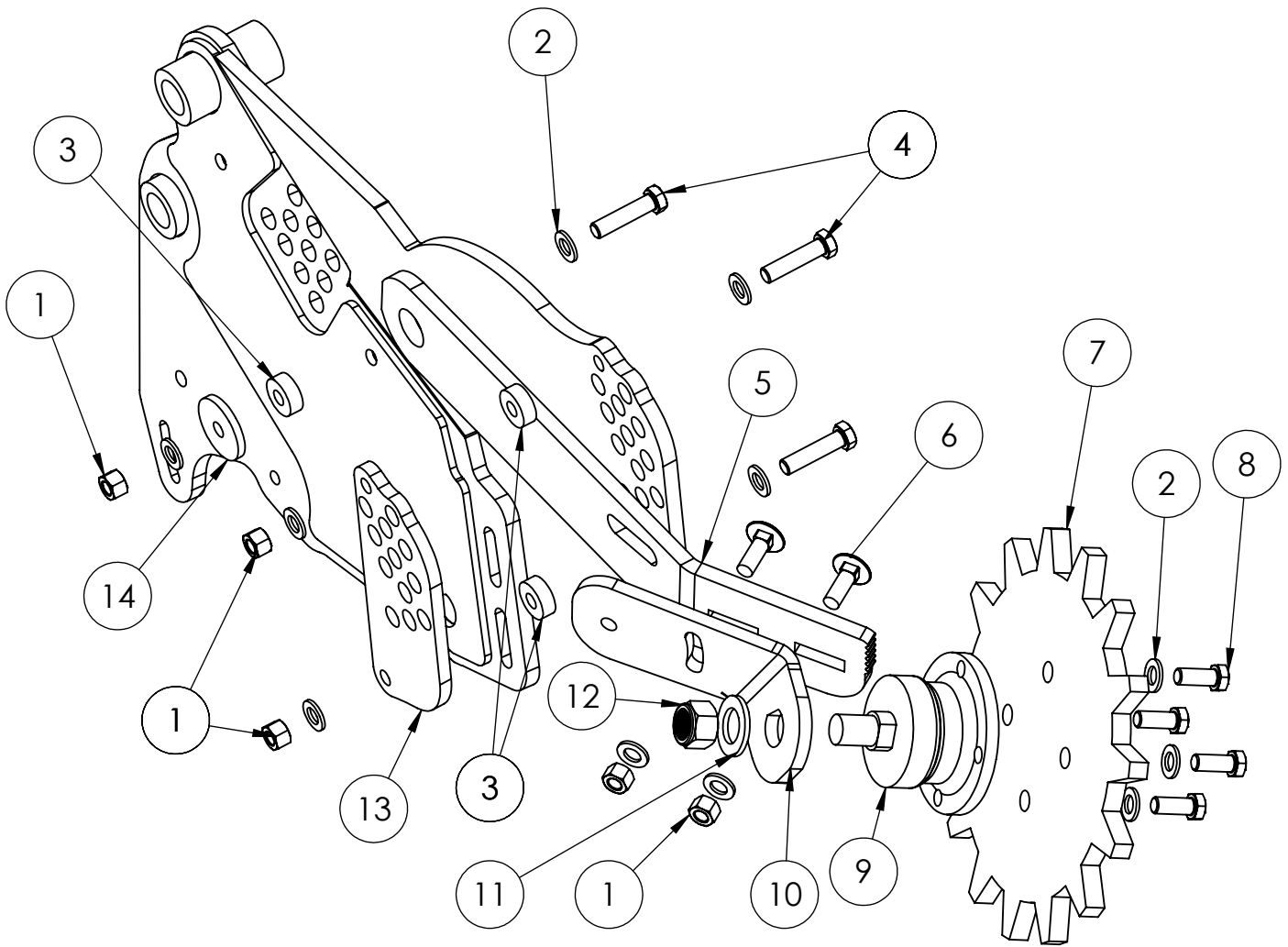
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INITIAL: RH

5.4 Closing Wheel



ITEM No.	PART No.	DESCRIPTION
1	SWM12004	M12 nylock nut
2	SWM12001	M12 flat washer
3	SWS13252	13mm spacer
4	SWM1250	M12x50bolt
5	SW2501	Closing wheel arm front left
	SW2513	Closing wheel arm front right (not shown)
6	SWM1235chsqa	M12x35 cup square bolt
7	SW2508	Firming wheel
8	SWM1225fine	M12x25 fine bolt
9	SWB399	Bearing
10	SW2502	Closing wheel arm rear left
	SW2514	Closing wheel arm rear right (not shown)
11	SWM1"001	1" flat washer
12	SWM22004FP	M22x1.5 nylock
13	SW2098	Depth profile rear
	SW2099	Depth profile front (hidden)
14	SW2518	Arm retaining washer

DO NOT SCALE DRAWING

MACHINE/COMPONENT:

DD Coulter

TITLE:

Firming wheel



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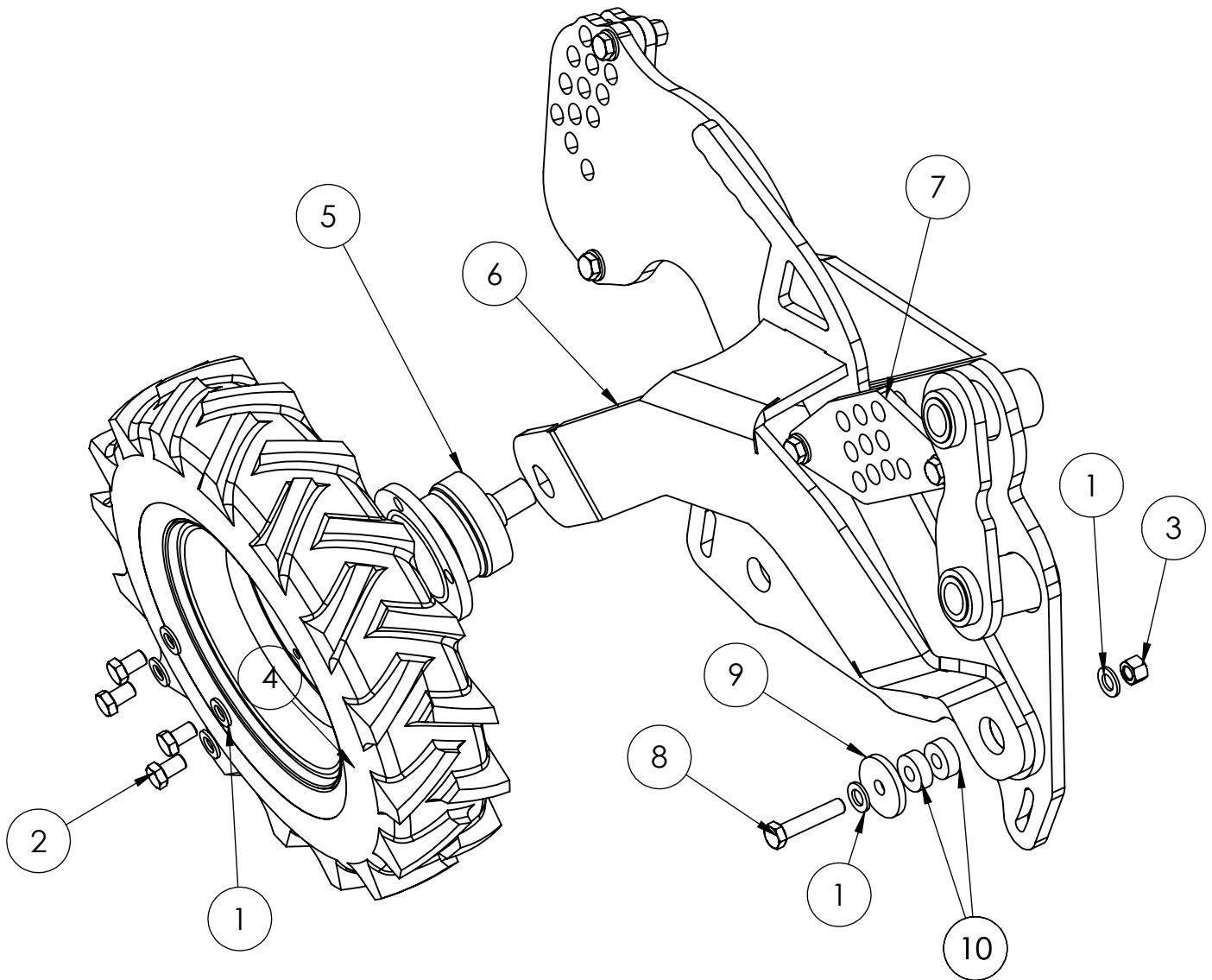
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INITIAL: RH

5.5 Gauge wheel



ITEM No.	PART No.	DESCRIPTION
1	SWM12001	M12 flat washer
2	SWM1220FP	M12x20 fine bolt
3	SWM12004	M12 nylock nut
4	SWB452PU	Gauge wheel
5	SWB399	Bearing
6	SW2507	Gauge wheel arm left
	SW2517	Gauge wheel arm right (not shown)
7	SW2099	Front depth profile plate
8	SWM1260	M12x60 bolt
9	SW2518	Arm retaining washer
10	SWS7907a	11mm spacer

DO NOT SCALE DRAWING

MACHINE/COMPONENT:

DD Coulter

TITLE:

Gauge wheel



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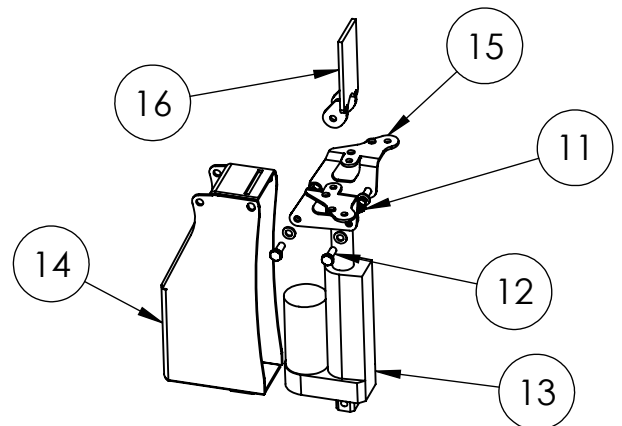
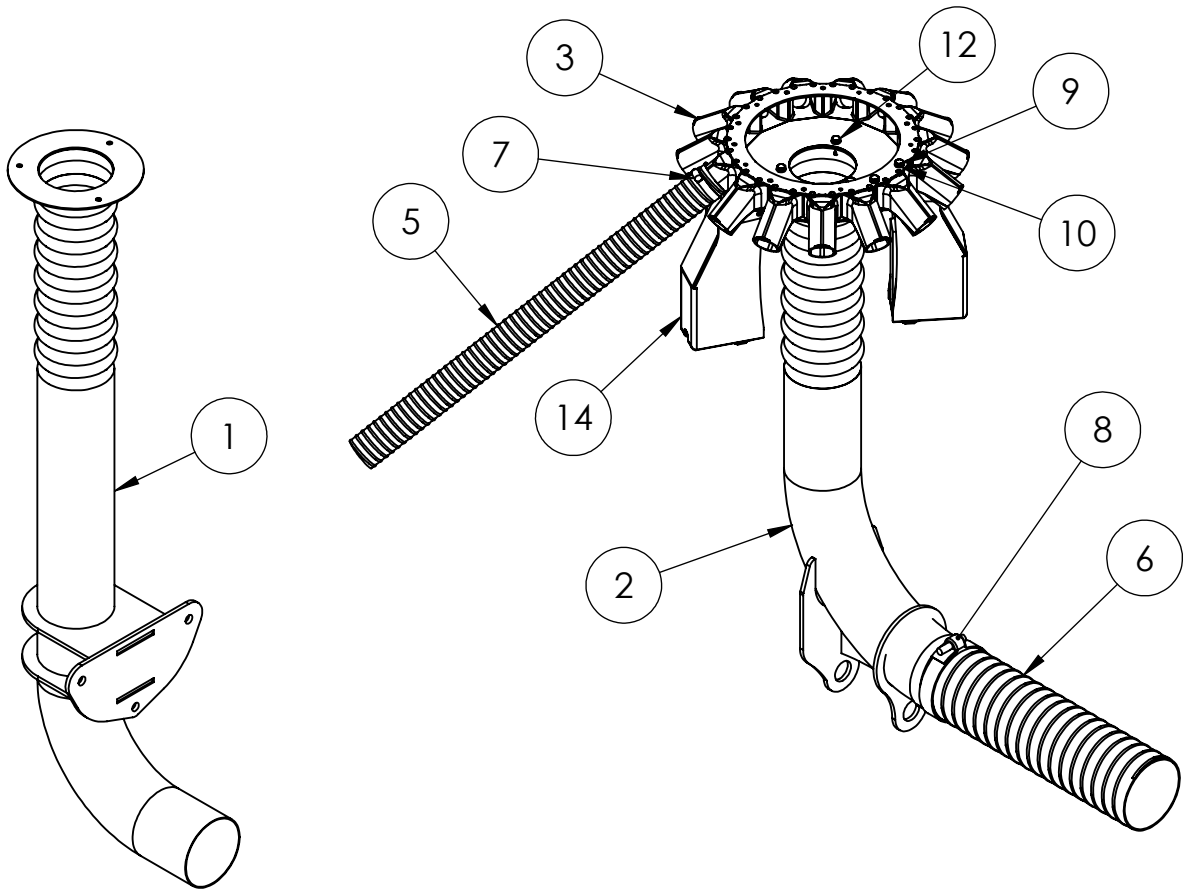
SCALE:1:20

REVISION:

DATE:

INITIAL: RH

5.6 Distribution System



ITEM NO.	PART NO.	DESCRIPTION
1	SW3103	4/4.8/5m Upstack
2	SW2353	6/8/9m Upstack
3	SWB667	Removable Distribution Outlet
4	SWB658	Removable Distribution Blank (not shown)
5	SWB470	38mm Hose (per metre)
6	SWB828	102mm Hose (per metre)
7	SWB469	38mm Jubilee Clip
8	SWB498	101mm Jubilee Clip
9	SWM660	M6 x 60 Bolt
10	SWM6001	M6 Washer
11	SWM6004	M6 Nylock Nut
12	SWM1620	M6 x 20 Bolt
13	SWB508	Tramline Actuator
14	SW1836	Actuator Cover
15	SW1885	Cover Brackets
16	SW1837	Shut off Slide

DO NOT SCALE DRAWING

MACHINE/COMPONENT:

DD

TITLE:

Distribution System



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REVISION:

DATE: 23/01/15

INITIAL: TW