Read the operators manual entirely. When you see this symbol, the subsequent instructions and warnings are serious - follow without exception. Your life and the lives of others depend on it!

Illustrations may show optional equipment not supplied with standard unit.
If you require a copy of this document in your native language please contact your dealer or Great Plains.

Požadujete-li kopii tohoto dokumentu ve svém rodném jazyce, obrat'te se prosím na svého prodejce nebo na společnost Great Plains.

Ha szeretné ezt a leírást magyarul is megkapni, kérjük, értesítse a forgalmazóját vagy a Great Plains-t.

Pour obtenir un exemplaire du présent document dans la langue de votre choix, veuillez contacter votre représentant ou Great Plains.

Jei prireiktų šio dokumento kopijos Jūsų gimtąja kalba, kreipkitės į savo platintoją arba į „Great Plains“.

Ако ви е необходимо копие на този документ на родния ви език, моля да се обърнете към вашия дилър или към Great Plains.

Dacă aveți nevoie de o copie a acestui document în limba dumneavoastră natală vă rugăm să vă contactați dealerul sau Great Plains.

Чтобы получить копию данного документа на вашем родном языке, обратитесь к своему дилеру или в компанию «Great Plains».

Wenn Sie ein Exemplar dieses Dokuments in Ihrer Muttersprache brauchen, dann wenden Sie sich bitte an Ihren Händler oder an die Great Plains.
DECLARATION OF CONFORMITY

Great Plains UK Ltd. hereby declare that the Great Plains Simba UniPress, as defined by the Serial Number attached to the Machine Chassis, conforms with the following Directives and Regulations, and has been certified accordingly.

EC Machinery Directive 2006/42/EC.

The Supply of Machinery (Safety) Regulations 2008.


Specifically related harmonised standards are:

EN ISO 12100-1: 2003 (Safety of Machinery).


THE MANUFACTURER:

Great Plains UK Ltd.
Woodbridge Road
SLEAFORD
Lincolnshire
NG34 7EW
England

Telephone (+44) (0)1529 304654.

CERTIFIED ON BEHALF OF GREAT PLAINS UK LTD.:

Colin Adams
Managing Director
WARRANTY
TERMS AND CONDITIONS

In this warranty Great Plains UK Ltd., is referred to as "the Company".

1. Subject to the provisions of this warranty the Company warrants each new machine sold by it to be sold free from any defect in material or workmanship for a period of 12 months from date of installation with the end-user.

Some specific items have additional warranty over and above the standard 12 months. Details of these can be obtained upon request directly from the distributor or Great Plains UK Ltd.

2. If the machine or part thereof supplied by the Company is not in accordance with the warranty given in clause 1 the Company will at its option:
   (a) make good the machine or part thereof at the Company’s expense, or
   (b) make an allowance to the purchaser against the purchase price of the machine or part thereof, or
   (c) accept the return of the machine and at the buyers option either:
       I) repay or allow the buyer the invoice price of the machine or part thereof, or
       II) replace the machine or part thereof as is reasonably practical.

3. This warranty shall not oblige the Company to make any payment in respect of loss of profit or other consequential loss or contingent liability of the Purchaser alleged to arise from any defect in the machine or impose any liability on the Company other than that contained in clause 2.

4. Any claim under this warranty must be notified to the Company in writing specifying the matters complained of within 14 days from the date of repair.

5. Any claim under this warranty must be made by the original purchaser of the machine and is not assignable to any third party.

6. If the purchaser hires out the machine to any third party the warranty shall apply only to matters notified to the Company in writing within 90 days of the date of delivery and clause 1 shall be read as if the period of 90 days were substituted for the period of 12 months.

7. The warranty will cease to apply if:
   (a) any parts not made, supplied or approved in writing by the Company are fitted to the machine or any repair is carried out to the machine other than by or with the express written approval of the Company or any alterations not expressly authorized by the Company in writing are made to the machine or the machine is damaged by accident or
   (d) the machine is abused or overloaded or used for a purpose or load beyond its design capabilities, or used in conjunction with a tractor whose power output capability exceeds the stated implement power requirement by more than 40%. For the purpose of these terms and conditions, “stated implement power requirement” refers to wheeled tractors unless specifically stated. These power requirements should be reduced by 20% when used in conjunction with tracked tractors.
   (f) the machine is operated as part of a ‘cultivation train’ where more than one implement is being towed, without the express written approval of Great Plains UK Ltd.
   (g) any maintenance is not carried out in accordance with the service schedules in the operator’s manual.
   (h) the Installation and Warranty Registration Certificate is not received by Great Plains UK Ltd., Service Dept., Woodbridge Road, Sleaford, Lincolnshire, England, NG34 7EW, within 7 days of installing a new machine.
# Machine Identification

Enter the relevant data in the following list upon acceptance of the machine:

<table>
<thead>
<tr>
<th>Serial Number</th>
<th>Type of Machine</th>
<th>Machine Width</th>
<th>Year of Construction</th>
<th>Delivery Date</th>
<th>First Operation</th>
<th>Accessories</th>
</tr>
</thead>
</table>

**Dealer Address:**

- Name: __________________________
- Street: __________________________
- Place: __________________________
- Tel.: __________________________

Dealer's Customer No.: __________________________

**Great Plains Address:**

Great Plains UK Ltd.
Woodbridge Road Ind. Est.
Sleaford
Lincolnshire
NG34 7EW

Tel.: +44 (0) 1529 304654
Fax: +44 (0) 1529 413468
E-Mail: simba@greatplainsmfg.com

Great Plains Customer No.: __________________________
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Introduction

Foreword
Make sure you have read and follow the Operating Instructions carefully before using the machine. By doing so, you will avoid accidents, reduce repair costs and downtime and increase the reliability and service life of your machine. Pay attention to the safety instructions!

Great Plains will not accept any responsibility for any damage or malfunctions resulting from failure to comply with the Operating Instructions.

These Operating Instructions will assist you in getting to know your machine and in using it correctly for its intended purposes. First, you are given general instructions in handling the machine. This is followed by sections on servicing, maintenance and the action to be taken should a malfunction occur.

These operating instructions are to be read and followed by all persons working on or with the machine, e.g.:

- Operation (including preparation, remedying of faults in the operating sequence and servicing).
- Maintenance (maintenance and inspection)
- Transportation.

Together with the Operating Instructions, you receive a Spare Parts List and a Machine Registration form. Field service technicians will instruct you in the operation and servicing of your machine. Following this, the Machine Registration form is to be returned to your dealer. This confirms your formal acceptance of the machine. The warranty period begins on the date of delivery.

We reserve the right to alter illustrations as well as technical data and weights contained in these Operating Instructions for the purpose of improving the machine.

Warranty Guidelines
The period of liability for material defects (warranty) relating to our products is 12 months. In the case of written deviations from the statutory provisions, these agreements shall apply.

They shall become effective upon installation of the machine with the end customer. All wear parts are excluded from the warranty.

All warranty claims must be submitted to Great Plains via your dealer.
1. Safety Data

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

1.1 Safety Symbols

On the machine

- Read and observe the Operating Instructions before using the machine!
- Keep clear of the working range of foldable machine components!
- Watch out for escaping pressurised fluids! Follow the instructions in the Operating Instructions!
- No passengers are allowed on the machine!
- Never reach into areas where there is a danger of being crushed by moving parts!
- Never reach into any revolving parts!

Parts may fly off during operation. Keep a safe distance away from the machine!
Refer to Operating Instructions before attempting maintenance.

Operating Instructions:

The Operating Instructions distinguish between three different types of warning and safety instructions. The following graphic symbols are used:

- **Important!**
- **Risk of injury!**
- **Risk of fatal and serious injuries!**

It is important that all the safety instructions contained in these Operating Instructions and all the warning signs on the machine are read carefully.

Ensure that the warning signs are legible. Replace any signs that are missing or damaged.

These instructions must be followed in order to prevent accidents. Inform other users of the warnings and safety instructions.

Do not carry out any operations which may affect safe use of the machine.

All references to left and right in this manual are made from the rear of the machine, facing the direction of travel (unless otherwise stated).
1.2 Use for the Intended Purpose

The Great Plains Simba UniPress is built using the latest technology and in accordance with the relevant recognised safety regulations. However, risks of injury for the operator or third parties and impairment of the machine or other tangible assets can arise during use.

The machine is only to be operated when in a technically perfect condition and for the intended purpose, taking into consideration safety and risks and following the Operating Instructions. In particular, faults that can impair safety are to be remedied immediately.

Original parts and accessories from Great Plains have been specially designed for this machine. Spare parts and accessories not supplied by us have not been tested or authorised. Installation or use of non-original Great Plains products may have a detrimental effect on specific design features of the machine and affect the safety of machine operators and the machine itself. Great Plains will accept no liability for damage resulting from the use of non-original parts or accessories.

The Great Plains Simba UniPress is designed solely as a cultivation implement. Use for any other purpose, e.g., as a means of transport, will be deemed to be improper use. Great Plains will accept no liability for damage resulting from improper use. The risk will be borne solely by the operator.

Use of the Simba UniPress behind high power tractors (in excess of 40% above the maximum recommended) can lead to high loads and stresses which can cause long term structural damage to the chassis and key components. Such overloading can compromise safety and is to be avoided.

1.3 Operational Safety

The machine is to be put in operation only after instruction has been provided by an employee of the authorised dealer or an employee of Great Plains. The “Machine Registration” form is to be completed and returned to your dealer.

All protective and safety equipment, such as removable protective equipment, must be in place and functioning reliably before the machine is put in use.

Check screws and bolts regularly for tightness and retighten if necessary.

In the event of malfunctions, stop and secure the machine immediately.

Ensure that any faults are remedied immediately.

1.4 No Liability for Consequential Damage

The Simba UniPress has been manufactured with great care. However, problems may still occur when it is used for the intended purpose. These may include:

• Worn wearing parts.
• Damage caused by external factors.
• Incorrect driving speeds.
• Incorrect setting of the unit (incorrect attachment, non-adherence to the Setting instructions).

It is crucial to always check your machine before and during operation for correct operation and adequate application accuracy.

Compensation claims for damage which has not occurred to the machine is excluded. This includes any consequential damage resulting from incorrect operation.
1.5 Road Traffic Safety
When driving on public roads, tracks and areas, it is important to observe the relevant road traffic laws as well as the specific regulations relating to this machine.

Pay attention to the permitted axle loads, tyre carrying capacity, and total weight in order to maintain adequate braking and steerability (these figures are shown on the serial plate).

Passengers on the machine are strictly forbidden!

Max. road transport speed 16mph (25km/h).

1.6 Accident Prevention
In addition to the Operating Instructions, it is important to observe the accident prevention regulations specified by agricultural trade associations. It is the Operator’s responsibility to ensure that all other persons are excluded from the danger zones surrounding or on the machine during its operation.

It is the Owner’s responsibility to ensure:

• the Operator is trained and competent to use the machine & tractor,
• the tractor is suitable for the machine
• adequate Risk and COSHH assessments have been undertaken regarding the machine’s use. Specifically, these include issues concerning contact with the soil, dust, crop residues, chemicals, lubricants and other compounds during operation or maintenance, and the possibility of stones being ejected at high speed during work.

Beware of trapping hazards when manipulating the parking stands or other moving parts. Ensure any heavy components are fully supported when removing pins / bolts.

1.6.1 Hitching-up the machine
There is a risk of injury when hitching/unhitching the machine. Observe the following:

• Secure the machine against rolling.
• Take special care when reversing the tractor!
• There is a risk of being crushed between the machine and the tractor!
• Park the machine on firm, level ground.

1.6.2 On the Hydraulic System
Do not connect the hydraulic lines to the tractor until both hydraulic systems (machine and tractor) are depressurised.

Any hydraulic system containing an accumulator can remain under pressure permanently (even after following manual depressurisation procedures with a tractor / implement combination). It is therefore important to check all lines, pipes, and screw connections regularly for leaks and any recognisable external damage.

The hydraulic circuit contains specialised fittings which should not be tampered with under any circumstances. Do not attempt to modify hose routings or hose clamping arrangements, doing so may cause serious damage to the machine and/or injury.
1. Safety Data

Only use appropriate aids when checking for leaks. Repair any damage immediately. Spurting oil can cause injuries and fires!

In case of injury, contact a doctor immediately.

The socket and plugs for the hydraulic connections between the tractor and the machine should be colour-coded in order to avoid incorrect use.

1.6.3 Changing Equipment

- Secure the machine to prevent it from accidentally rolling away!
- Use suitable supports to secure any raised frame sections suspended above you!
- Caution! Risk of injury due to projecting parts!

Never climb on to rotating parts such as the roll unit. These parts may rotate causing you to slip and suffer serious injury!

Removing components during maintenance may affect the stability of the machine. Ensure it is fully supported in case of unexpected weight shifts.

1.6.4 During Operation

Ensure that the working range and the area around the machine are clear (children!) before operating the machine.

Always ensure adequate visibility!

Do not stand on the machine while it is in operation!

Operators must have a valid driving licence in order to drive on public roads. In the operating area, the operator is responsible for third parties.

The person in charge must:

- provide the operator with a copy of the Operating Instructions, and
- ensure that the operator has read and understood the instructions.
- make sure that the operator is aware of the specific regulations relating to the machine when driving on public roads.

1.7 Servicing & Maintenance

Ensure that regular checks and inspections are always carried out within the periods required by law or specified in these Operating Instructions.

When carrying out service and maintenance work always:

- switch off the tractor engine and remove the ignition key.
- wait until all the machine parts have stopped moving.
- depressurise the hydraulic system.

Many hydraulic circuits contain lock or overcentre valves which can retain pressure in the lines even after depressurising the tractor side of these circuits. If in doubt, consult trained personnel (such as your local Great Plains Dealer) to ensure such valves are depressurised to the correct procedure before removing or servicing any parts connected downstream of these valves.
1. Safety Data

Check all hydraulic lines for leaks, loose connections, chafe marks and damage. Remedy any deficiencies immediately! Pay particular attention to hose renewal intervals as outlined in the specific sections which follow. ALL hydraulic hoses have a safe maximum working life of 6 (SIX) years from date of installation, provided they remain in a safe condition. Hoses which exceed 6 years of age should be replaced, or inspected and certified by a suitably qualified person to have an extended life period which should be recorded.

Pay particular attention to those items which require specialist service tools or training to be carried out by qualified personnel. Do not attempt to service these items yourself! These include items retaining pressure (e.g. accumulator circuits), or force (e.g. spring tines), and DD Rolls of any type.

Prior to performing maintenance and servicing work, ensure that the machine is positioned on solid, level ground and is secured to prevent it rolling away. Do not use any parts to climb on to the machine unless they are specifically designed for this purpose.

Before cleaning the machine with water, steam jets (high-pressure cleaning apparatus) or other cleaning agents, cover all openings into which, for reasons of safety or operation, no water, steam or cleaning agents are to penetrate (bearings, for instance).

Lubricate all the lubricating points to force out any trapped water.

When carrying out servicing and maintenance work, retighten any loose screw connections.

When servicing the machine take precautions against soil, dust, seed coatings, oil or any other hazardous substances that you might encounter.

On a new machine tighten all nuts and bolts after 5 hours work and again after 15 hours. This also applies to parts that have been moved or replaced. After the initial 15 hours of work a once a week check should be sufficient depending on daily work rates.

1.8 Operating Areas

The operating areas include the drawbar, hydraulic connections and depth adjustment equipment as well as all operating points requiring maintenance.

All operating areas will be specified and described in detail in the following chapters on servicing and maintenance.

Observe all safety regulations included in the section dealing with Safety, and in the subsequent sections.

1.9 Authorised Operators

Only those persons who have been authorised and instructed by the operator may operate the machine. The operator must be at least 16 years of age.

1.10 Protective Equipment

For operation and maintenance, you require:

• Tight fitting clothing.

• Strong protective gloves (to provide protection against sharp-edged machine components).

• Protective goggles (to stop dirt getting into your eyes).
2. Transportation and Installation

Transportation and initial installation of the machine are described in this chapter.

2.1 Delivery

The machine is normally delivered fully assembled.

- The machine can be lifted off with a crane or other suitable lifting equipment.
- The machine should be hitched to a tractor and driven off a low-loader.

2.2 Transportation

The Simba UniPress can be transported on public roads by hitching it up to a tractor or on a low-loader.

- It is important to observe the permitted dimensions and weights when transporting the machine.

- If the machine is transported on a trailer or a low-loader, it must be secured using straps or other devices.

- Before transporting the machine on public roads, it must be adjusted to its transportation position and the stipulations relating to road transportation fulfilled.

- The maximum permissible speed is 25 km/h.

2.3 Installation

When carrying out installation and maintenance work there is a higher risk of injury. It is important that you familiarise yourself with the machine and read the Operating Instructions beforehand.

Operator instruction and initial installation of the machine are carried out by our service technicians or authorised distributors.

The machine must not be used in any way beforehand! The machine can only be released for operation after instructions have been provided by our service technicians or authorised distributors.

- If any modules or parts have been removed for transportation, these shall be mounted by our service technicians/authorised dealers before the instruction takes place.

- Check all important screw connections!

- Lubricate all nipples and joints!

- Check all hydraulic connections and lines for damage.
2.4 Hitching Up

When hitching-up the machine, ensure that no-one is between the tractor and the machine.

When the Simba UniPress is parked for extended periods of time it should ideally be left in the unfolded, i.e. work, position for stability, safety and ease of access for maintenance. However, parking the Simba UniPress in the folded position (using the parking stands provided) is acceptable in the normal course of operation.

**Tractor Oil Flow Adjustment:**
As a general rule the tractor oil flow rate should be set in the lowest setting before starting. This can then be increased to allow the desired rate of operation as applicable. This will minimise excessive oil flow and consequent power usage and heat generation.

Do not open taps while tractor hydraulics are in float.

The hoses in the lift circuit have a maximum rated pressure of 415 bar, and should be replaced every 6 years. Other components in this locking circuit have a maximum rated pressure of at least 350 bar.

2.4.1 Hitching up a Tractor to the Simba UniPress / Preparing for Transport

1. Couple the six hydraulic hoses to the tractor ensuring that the two wing hoses are together, the two drawbar cylinder hoses are together and the two levelling board hoses are together.

2. Connect the tractor to the drawbar using the hydraulics to raise or lower the height of the shackle. Do not use the tractor pick-up hitch to attach the machine to the tractor.

3. Carefully operate the hydraulics to lower the drawbar and tilt the Simba UniPress onto the road transport wheels. Fully extend the drawbar cylinder.

4. This allows the levelling boards to be fully raised so that when the Simba UniPress is folded the levelling boards do not protrude beyond the 3m transport width. Fully raise the levelling boards.

5. Operate the hydraulics to fold the wings.

6. Ensure that the wing strap is fitted to tie the two wing sections together.

7. Ensure that parking stands are locked in the transport position, i.e. fully raised.
2.5 Folding and Unfolding

Check for exposed persons when lowering / unfolding the machine.

Do not climb on the machine to fit or remove the transport strap, this should be done from the ground.

2.5.1 Unfolding into the Work Position

1. Ensure that the parking stands are in the fully raised position.

2. Remove the transport strap from the rear wing cylinders. Stow the transport strap on the lights as shown in Fig. 2.01.

3. Open the taps on the hosemast.

Beware of sudden or uncontrolled movements if the taps are opened with the hydraulics in float. Do not open taps with the tractor hydraulics in float.

4. Operate the hydraulics to fully unfold the wings.

5. Lower the machine to the ground until the chassis is level front to rear or the drawbar cylinders touch the depth stops.

2.5.2 Folding into the Transport Position

1. Fully raise the levelling boards so that they do not protrude beyond the 3m transport width.

2. Raise the machine onto the transport wheels.

3. Operate the hydraulics to fully fold the wings.

4. Fit the transport strap across the pins on the rear wing cylinders for transport safety.

5. Close the taps on the hosemast.

6. Lower the parking stands if the Simba UniPress is to be unhitched from the tractor in the folded position.

Fig. 2.01: Transport Strap Stowage in Work
2.6 Air Brake Coupling Procedure

Please refer to the following procedure when coupling or decoupling any item of Great Plains machinery fitted with an AIR brake or AIR and HYDRAULIC brake system. Please note that this procedure does not apply to any machines fitted with a HYDRAULIC system ONLY.

2.6.1 When Coupling

1. Reverse up to the machine and connect the machine to the tractor as instructed to in Section 2.4.1.

2. With the machine connected couple the air lines. When coupling ensure the yellow line is attached first followed by the red line.

3. Your brake hoses are now attached and are ready for operation.

4. Continue with the coupling process as instructed in Section 2.4.1.

2.6.2 When De-coupling

1. Bring the machine to the parking position as instructed to in Section 2.9.

2. With the machine still connected to the tractor remove the red brake line followed by the yellow line.

3. Your brakes will now be ON and will hold, ensuring they have been adjusted and maintained correctly, the machine in position. (note: if the machine’s tank is drained of air once all lines have been detached the brakes will come off (same situation as pushing the shunt valve).

4. Continue de-coupling the machine until it is fully disconnected.

By following the above instructions you will see that at NO point in the coupling or decoupling process has the red line been left in the tractor on its own. This is intentional and should be considered the ‘rule’ to coupling the hoses.
2.7 Preceding & Trailing Implements

Adding a preceding or trailing implement to the Simba UniPress will affect the stability and handling of the machine both in transport and work.

2.7.1 Hitching a Disc Cultivator Ahead of the Simba UniPress

1. Remove the transport straps from the disc cultivator, exercise great CARE when extending the axle cylinder.

2. Reverse the disc cultivator up to the Simba UniPress drawbar ensuring that the two drawbars are aligned allowing a slight clearance to enable the machines to be coupled together.

3. Lower the disc cultivator to the ground.

4. Connect the hydraulic hoses from the Simba UniPress into the disc cultivator rear outlets ensuring that the wing hoses are together and the drawbar cylinder hoses are together. Ensure that the folding circuits and lift drawbar circuits are coupled correctly.

5. Raise the Simba UniPress drawbar above the disc drawbar (200mm approx.). Depth control shims may need to be removed.

6. Raise the disc cultivator to the same height as the Simba UniPress drawbar then reverse the disc cultivator to couple the two machines together.

7. Fit the drawbar pin.

8. Operate the hydraulics to lower the rear axle and drawbar, tilting the Simba UniPress onto the road transport wheels. Fully extend the drawbar cylinders.

9. Fully raise the levelling boards.

10. Operate the hydraulics to fold the wings.

11. Operate the hydraulics to lift the disc cultivator into the transport position.

12. Fit the disc cultivator transport straps.

13. Fit the Simba UniPress wing transport strap to tie the two wing sections together.

14. Ensure that parking stands are locked up in their work position.

With both machines in the transport position i.e. raised and folded, the chassis of the disc cultivator should be slightly nose down or horizontal even when the downward load from the Simba UniPress is applied to the drawbar of the disc cultivator.

The frame may be levelled by altering the rearward tilt of the Simba UniPress to increase or reduce the loading on the disc rear drawbar.
2.7.2 Transporting a UniPress Behind a Disc Cultivator
With both machines in the transport position i.e. raised and folded, the chassis of the disc cultivator should be slightly nose down or horizontal even when the downward load from the Simba UniPress is applied to the drawbar of the disc cultivator. The chassis should NEVER be tail low in transport as this will give a high negative loading on the tractor which could lead to loss of traction to the rear wheels.

Extreme caution must be taken when transporting the machine up steep gradients and across side slopes. Higher drawbar loading can be achieved by shortening the drawbar cylinder.

Prior to leaving the field to travel on a public highway ensure that any clods of soil are removed from the machine to prevent them from fouling the road.

MAXIMUM ROAD TRANSPORT SPEED 16 MPH (25 km/h).

2.7.3 Changing from Work to Road Transport (Simba UniPress Towed Behind a Disc Cultivator)
1. Operate the hydraulics to raise the disc and Simba UniPress.
2. Operate the hydraulics to fold the wings on both the disc cultivator and the UniPress.
3. Fit the transport straps to both machines.

It may be necessary to shorten the drawbar cylinder of the disc cultivator until the chassis is horizontal or slightly nose down before moving the machines.

Shortening the UniPress drawbar cylinder will increase the loading on the rear of the disc cultivator frame. If necessary this can be used to level the chassis for road transport.

2.7.4 Rear Drawbar Setting

To prepare the rear drawbar for use:
1. Open the tap on the rear drawbar cylinder.
2. Retract the cylinder and insert pin.
3. Close the tap to secure its position.

To change back to road transport / 'not in use' position:
1. Open the tap on the rear drawbar cylinder.
2. Remove the pin and stow in the hole shown.
3. Extend the cylinder and close the tap to secure its position.
2.7.5 Hitching a Rear Roll to the Simba UniPress

Follow procedure 2.4 (page 16) to couple a tractor to the Simba UniPress. Once the tractor is safely connected to the implement and in its folded setting, raise the machine fully clear of the ground.

1. Reverse the Simba UniPress up to the roller.

2. Align the Simba UniPress and roller drawbars, lower the Simba UniPress to the ground and depressurise the lift hydraulics.

3. Raise / lower the axle as required to align the respective machines’ drawbars and couple together.

4. Couple the rear roll to the lift circuit of the Simba UniPress, ensuring that the hoses are connected to the corresponding circuit on the trailing machine.

5. Couple the rear roll wing (fold) circuit to the wing (fold) circuit of the Simba UniPress.

6. Fully raise the Simba UniPress and the roll clear of the ground.

7. Check that all transport straps / devices are fitted or closed.

2.8 When driving on the road

When driving on the road the machine must be converted to the transportation position.

When driving on the road, raise the machine completely to prevent the working elements dragging on the ground.

2.9 Parking the machine

In order to avoid damage as a result of moisture, the machine should be parked, if possible, indoors or under cover.

When manoeuvring the machine, pay attention to your surroundings. Ensure that nobody is in the manoeuvring area (watch for children!).

- Park the machine on level and solid ground.
- Fit wheel chocks.
- With the machine raised move the parking stands into position.
- Lower the machine onto the parking stands ensuring that it is stable.
- Remove the drawbar pin and drive forward slowly until hitch is clear of tractor drawbar.
- Lower the drawbar to the ground.
- Switch off the tractor.
- Disconnect hydraulic lines from the tractor.

If parking on uneven or sloping ground chock the machine and unfold / lower first to avoid instability.

Fig. 2.04. Wheel chocks
2. Transportation / Installation
### 3. Technical Data Simba UniPress

<table>
<thead>
<tr>
<th></th>
<th>4.6m</th>
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<td>3542Kg</td>
<td>4041Kg</td>
<td>4702Kg</td>
<td>5146Kg</td>
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* It is important to correctly match your implement to your tractor for optimum performance.
** Varies with lift, tilt and options.
4. Adjustment / Operation

4.1 Description

The Simba UniPress consists of two rows of sprung tines followed by a hydraulically operated levelling board then a row of press rings.

The levelling board consists of a series of sprung leaves with each leaf set between each roll ring. The levelling board carries soil ahead of the rings to fill low areas. The sprung leaves crush clods as they pass under the levelling board and align clods with the press rings.

The use of the Simba UniPress in tandem with a disc cultivator for straw incorporation, is to consolidate the straw soil mix through the soil profile ensuring maximum straw soil contact to increase the breakdown process, minimise slug problems and to leave a firm weatherproof finish.

The Great Plains Simba UniPress is a versatile implement designed to perform an excellent shallow cultivation combined with effective consolidation. It may be towed on its own or in tandem behind another implement e.g. disc cultivator.

It can be used in reduced tillage systems behind a disc cultivator to incorporate stubble or to work down ploughing on medium to heavy soil types. Like all Great Plains machines it features the latest innovations which combine to give an efficient, well-built unit with unrivalled reliability.

---

Fig. 4.01: Simba UniPress

1. Drawbar
2. Shim Stowage
3. Parking Stands
4. Tines
5. Levelling Board
6. DD700 Roll
7. Transport Wheels
8. Wheel Chocks
9. Rear Drawbar (if fitted)
10. Hydraulic Hose Stowage
4.2 Pro-Active (Sprung) Tines
The Pro-Active tines are designed to move soil and shatter clods to a greater degree than traditional rigid leading tines. The ability to move in all directions (upwards and sideways) allows them to clear stones and other obstructions. They feature simple, pinned tine depth adjustment for easy depth variation.

4.3 Levelling Boards
The action of the sprung leaf type levelling boards is to carry and drop soil to level in front of the press rings, to rub clod against clod for additional soil breakdown, to force clods down into the soil profile and to present remaining clods passing between the leaves into the row of press rings.

Fig. 4.02: Pro-Active (Sprung) Tines
Fig. 4.03: Levelling Boards
4.4 Double Disc Roller

The standard DD700 roller is made up of individual Double Disc (patented) Ring segments.

The DD rings are designed to consolidate the soil whilst cutting and crushing any clods.

Even in heavy, wet soils it can easily be operated with minimal blockages occurring.

The DD roller carries a proportion of the machine’s weight to ensure consolidation. The corrugated surface left by the roller is weatherproof both for wet or dry situations.

![Double Disc Roller](image)

Fig. 4.04: Double Disc Roller

4.5 Work Settings

In work the wing cylinders should be fully extended. The gangs are able to float over any undulations on the ground due to their floating frames.

Optimum performance has been found to be achieved when the press roll rings have worn away the painted finish leaving a smooth shiny surface. When the press roll rings are new or rusty, soil may tend to pick up on the surface and blockage may occur, this will reduce when the rings are shiny again.

The Simba UniPress should be run with the chassis level front to rear by extending the drawbar cylinders to the necessary position. The cylinders should not be over extended as this will remove the load on the rings which could lead to reduced drive and hence blockage of the axles.

It is not necessary to tilt the Simba UniPress onto the transport wheels during headland turns whether the machine is used independently or in tandem with a disc cultivator. Normally, the Simba UniPress should be tilted sufficiently onto the roll for the tines and levelling boards to clear the ground (at which point the rear axle wheels will still be clear of ground contact).

4.5.1 Levelling Boards

The levelling boards are set using shims in the levelling board cylinders. During work, these cylinders should be retracted onto the shims but can be extended to release any soil / trash build up.

With the chassis set level add shims until the levelling boards are carrying soil. The levelling boards will need to be set higher during 1st pass operations especially on ploughed land where large clods may not be able to pass under or between the sprung leaves.
The boards need to carry a certain amount of soil to effect a levelling operation and also to give a clod to clod crushing action.

When reversing the Simba UniPress into corners when working headlands ensure that the levelling boards are fully raised and the machine tilted onto the roll rings far enough to allow the lower ends of the sprung leaves to clear the ground.

**General Rules when Setting the Simba UniPress**

- Run slightly tail low to give increased clod cutting and consolidation in harder conditions.

- In trashy conditions the use of the levelling board may be limited due to raking trash.

- Increase the rake angle of the levelling board in spring time operation to carry more soil for levelling.

- Reduce rake angle on levelling board to hold soil and rub clod against clod in harder conditions. This will also align clods with the DD rings facilitating better cutting.

### 4.6 Pitch Control

Pitch control on the Simba UniPress is governed by the quantity of shims fitted to the depth stops attached to the drawbar cylinders. Increasing the number of shims will lift the front of the chassis when lowered into the work position.

Running the machine level allows the press rings to give an even consolidation and clod crushing action, with the sprung leaves of the levelling board aiding the clod crushing action, aligning the clods for the roll rings.

Running the machine significantly nose down or raised will reduce the load on the rear axle leading to loss of drive of the axle and then blockage, together with a reduced consolidation effect.

If any roll axle starts to block regularly, this is generally an indication that the roll axle is not tight. Failure to keep the axles tight results in loss of drive between each pair of rings allowing rings to turn individually on the axle. Should this occur the axle must be tightened immediately to prevent any damage occurring to the axle shaft.

If the roll axles start to block regularly this may also be an indication that the ground conditions are too wet for the Simba UniPress to be effective.

In practice it is possible to use the UniPress on ground conditions that are unsuitable to achieve the desired effect, and it is usually possible to operate the machine without regular blockage under such unsuitable conditions, assuming that the axles are tight and rings smooth.

As such, especially under wet conditions, it is advisable to check on the cultivation effect of the machine. Often the use of the press 12 - 24 hours after the disc or longer following the plough gives a far superior surface consolidation effect.
When the Simba UniPress is used tilted onto the rings the loading on the disc cultivator or tractor drawbar is increased. This will cause the rear of the disc to dig deeper moving the rear gang to the right. Shortening the disc cultivator levelling springs should allow the disc cultivator to pull straight again. Equally, increased tractor drawbar loadings will deepen wheelings requiring more effort to eradicate these.

It is not necessary to tilt the Simba UniPress onto the transport wheels during headland turns whether the machine is used independently or in tandem with a disc cultivator.

Fully extending the drawbar cylinder and then reversing into the headland furrow could lead to damage of the cylinder.

### 4.7 Using Shims

Before using shims to alter machine settings ensure the machine is stationary and the tractor is turned off with the keys out. Ensure that all operators are clear of the machine and that no load is being held on any existing shims in the cylinder.

To fit the shims hold them by the handle and, using a firm action, clip them onto the rod as shown in Fig. 4.05. They are removed by using a finger to pull firmly on the handle.

- Check the cylinders for damage and debris before fitting shims.
- Only attempt to add or remove shims using the handle. Trying to manipulate shims using the jaws could result in injury.
- When changing machine settings ensure both sides of the machine mirror each other. The left hand cylinder should contain the same amount of shims as the right, for example. Failure to do this could result in damage to the machine.

**Fig. 4.05: Shims**
4.8 Work Instructions

Driving speed
The Simba UniPress can be driven at speeds of up to 12 km/h.

This depends on the field conditions (type of soil, surface trash, etc.).

Drive more slowly if the conditions are difficult or a firmer finish is required.

⚠️ Beware of stones being thrown by the spring action of tines returning from their stressed state in work.

Parking the Machine
In order to avoid damage as a result of moisture, the machine should be parked, if possible, indoors or under cover.

⚠️ When manoeuvring the machine, pay attention to your surroundings. Ensure that nobody (children!) is in the manoeuvring area.

• Park the machine on level and solid ground.
• Fit wheel chocks.
• With the machine raised move the parking stands into position.
• Lower the machine onto the parking stands ensuring that it is stable.
• Remove the drawbar pin and drive forward slowly until hitch is clear of tractor drawbar.
• Lower the drawbar to the ground.
• Switch off the tractor.
• Disconnect hydraulic lines from the tractor.

⚠️ If parking on uneven or sloping ground chock the machine and unfold / lower first to avoid instability.

4.9 Checks

The working quality depends on the adjustments and checks made prior to and during work, as well as on regular servicing and maintenance of the machine.

Before beginning work it is therefore important to carry out any necessary servicing and to lubricate the machine as required.

Checks prior to, and during work:
• Is the machine correctly hitched up and the coupling device locked?
• Have the hydraulic and electric lines been connected according to the colour coding?
• Is the machine in a level operating position and the working depth set correctly?
• Regularly inspect the machine for damage and signs of overloading (stress cracks on welded joints, frame distortion)

Working Elements
• Are the double disc rings and other cultivation tools in a serviceable condition?
• Are the scrapers still operable, so that the rolls do not jam?
5. Servicing and Maintenance

5.1 Servicing
Your machine has been designed and constructed for maximum performance, operational efficiency and operator friendliness under a wide variety of operating conditions.

Prior to delivery, your machine has been checked at the factory and by your authorised dealer to ensure that you receive a machine in optimum condition.

To ensure trouble-free operation, it is important that servicing and maintenance work is performed at the recommended intervals.

5.2 Cleaning
In order to ensure that the machine is always in operating condition and to achieve optimum performance, perform the cleaning and servicing work at regular intervals.

Avoid cleaning the roll bearings with a high-pressure hose or a direct water jet. The housing, screwed connections and ball bearings are not watertight.

5.3 Double Disc Axles
The axles on this roller are tensioned by the main axle through the centre of the rings and bearings.

Specialist equipment is required for the disassembly of Double Disc axles. Please consult your dealer under any circumstances that require disassembly of these axles.

Maintenance of these rollers is limited to daily greasing of the bearings to flush out dirt, and regular inspection to ensure the assemblies are tight, and scrapers are correctly set. The axles can be tightened provided the bearing pillar ‘U’ bolts are loosened to avoid preloading the bearings as they move sideways to each other. Ensure the bearing pillars are re-tightened to the mainframe after this.

5.4 Hydraulics
A low oil flow should be used, i.e., tractor tickover or low flow selected.

The wing circuit is controlled by an overcentre valve contained within the manifold block which positively locks oil flow until pressurised by the tractor. System pressure can be retained in the circuit even after depressurisation of the tractor quick release couplings.

Exercise extreme care when checking the valve or circuits, and under no circumstances attempt to adjust or loosen fittings without prior reference to your authorised Great Plains dealer, and detailed maintenance instructions.
5.5 Tines

When performing maintenance work on tines extreme care should be taken. Wear goggles and gloves at all times when maintaining tines.

Safely support unfolded machine in raised position using taps and stands before attempting maintenance work on tines.

Do not attempt to assist fitting tine points with a steel headed hammer, this can lead to splintering of the metal due to its hardness, which can cause injury. If tine fitting requires assistance, a copper/hide or plastic mallet should be used.

5.6 Levelling Boards

Safely support the unfolded machine in a raised position using taps and stands before attempting maintenance work on the levelling boards.

5.7 Preparation for Storage

If you need to store the machine for a longer period, observe the following points:

- Park the machine undercover if possible.
- Protect the roll against rust. If you need to spray the implements with oil, use light biologically degradable oils, e.g. rape oil.

Cover any rubber sections before using oil sprays. These sections must not be oiled. Remove any traces of oil with a suitable cleaning agent.

5.8 Operator Support

If you have a problem, please contact your dealer. They will endeavour to solve any problems which may occur and provide you with support at all times.

In order to enable your dealer to deal with problems as quickly as possible, it helps if you can provide them with the following data. Always state the:

- Customer Number
- Name and Address
- Machine Model
- Serial Number of Machine
- Date of Purchase and Operating Hours
- Type of Problem
5.9 Brakes & Wheel Hubs
The brakes should be tested before using for the first time and after the laden journey.

- Check that the road and parking brakes operate and release correctly before using the machine.
- Check for hydraulic fluid and air leaks.
- Brake and hub maintenance and servicing should be carried out by an authorised dealer.

5.10 Maintenance Intervals
Apart from daily maintenance, the maintenance intervals are based on the number of operating hours and time data.

Keep a record of your operating hours to ensure that the specified maintenance intervals are adhered to as closely as possible.

Never use a machine that is due for maintenance. Ensure that all deficiencies found during regular checks are remedied immediately.

- Avoid sharp-edged and pointed parts (disc blades, etc.) when working on the machine.
- Place the machine on suitable supports when working underneath! Do not work under a machine which is not supported!

On a new machine tighten all nuts and bolts after 5 hours work and again after 15 hours. This also applies to parts that have been moved or replaced. After the initial 15 hours of work a once a week check should be sufficient depending on daily work rates.

5.10.1 End of Season Service/Storage
The machine should be left parked in the unfolded position

- Wheel bearings should be inspected and re-packed with grease if required
- All greased pins/pivots should be lubricated.
- Check for worn or damaged components and hardware, replace where required.
- If fitted, check and where required adjust DD roller tension
- Where hydraulic cylinder rods are exposed, re-coat chrome with oil/grease.
- If the machine has been washed before storage it is good practice to function all hydraulic cylinders and services before storage.
- Remove all fertiliser and seed from all metering units and hoppers.
- Remove all metering cassette elements.
5.11 To Adjust the System Pressure

A low oil flow should be used, i.e., tractor tickover or low flow selected.

The wing circuit is controlled by an overcentre valve contained within the manifold block which positively locks oil flow until pressurised by the tractor. System pressure can be retained in the circuit even after depressurisation of the tractor quick release couplings.

Exercise extreme care when checking the valve or circuits, and under no circumstances attempt to adjust or loosen fittings without prior reference to your authorised dealer, and detailed maintenance instructions.

It is normal to operate at 10-20 bar. This can be increased to 40-50 bar max, or reduced to 5 bar as conditions determine. Higher pressure will cause the wing tips to dig in causing the centre of the machine to lift it out. Too little pressure will cause the wing tips to lift out & the centre of the machine to dig in. When towing another implement behind the Simba UniPress, the pressure may need increasing to compensate.

In all cases the normal adjustment method is to minimise system pressure and then increase by adjusting the pressure valve until the desired pressure is achieved.

In all cases, regardless of tractor make, adjustment should start from zero (minimum pressure) and gradually increase up to desired pressure value.

With the machine off the ground,

1. Pressurise the wings to unfold. As the unfolding begins the pressure reading on the gauge will drop. When the wings have fully unfolded the pressure reading will start to climb. Keep pressurising the wings until the gauge has stabilised at the pre-set pressure. The standard factory setting is 15 bar.

2. If the system needs adjusting:- Partially fold the wings & hold them in this position. To adjust the pressure utilise valve 3 (shown in Fig. 5.03). Unscrew the adjusting screw until no resistance can be felt (almost fully unscrewed position). Unfold the wings fully as before, checking the gauge reading. Maintain hydraulic pressure unfolding wings & adjust the screw whilst pressurising.

- Turning adjuster clockwise increases pressure.
- Turning adjuster anti-clockwise decreases pressure.

Once the desired pressure is achieved lock the valve. As a check, partially fold the wings, stop, and then unfold again maintaining pressure until the gauge stabilises at your desired setting.

Fig. 5.03: Manifold Block
5.12 Maintenance Overview

- **Wheel Nut Torque:** 270Nm
- **Tyres:**
  - 400/60-15.5 14 Ply
  - 500/50-17 14 Ply
- **Max Tyre Pressure:** 50psi / 3.5bar

- **Lights**
  - Inspect Before Each Use
- **Transport Strap**
  - Inspect Before Each Use
- **Wing Pivots**
  - Grease 50 Hours
- **Parking Stands**
  - Inspect Before Each Use
- **Drawbar Pivots**
  - Grease 50 Hours
- **All Hydraulics**
  - Inspect Before Each Use
- **DD Axles**
  - Grease 10 Hours
- **Scrapers**
  - Inspect 10 Hours
  - Grease 600 Hours
- **Hubs**
  - Inspect 10 Hours
  - Grease 600 Hours
- **Hubs / Brakes**
  - Inspect Before Each Use
- **Tines DD Roll Lev. Board**
  - Grease 10 Hours
5.13 Lubricating the Machine
Please read the section below carefully before lubricating the machine.

The machine must be lubricated regularly in order for it to remain serviceable. Regular lubrication also contributes towards extending the service life of your machine.

The recommended lubricating intervals are specified in “Maintenance Overview”.

After it has been washed using a high-pressure hose or steam cleaned, the machine should always be lubricated using a grease gun.

5.14 Handling of Lubricants
Please ensure that you read the following instructions as well as the relevant information. This also applies to any of your employees who handle lubricants.

Hygiene
Lubricants do not present a health hazard provided they are used for their specified purpose.

In the case of prolonged skin contact, lubricants, especially low-viscosity oils, may remove the natural layer of fat contained in the skin, resulting in dryness and possible irritation.

It is important to take extreme care when handling waste oil as it may contain other irritants.

Vapours given off by cleaning agents and oils are also a potential health hazard. You should therefore not carry any oily cloths around. Change soiled work clothing as soon as possible.

Always exercise extreme care and observe the recommended hygiene rules when handling mineral oil products. Details of these handling regulations can be found in information provided by the health authorities.

Storage and Handling
• Always store lubricants where they cannot be accessed by children.
• Never store lubricants in open or unlabelled containers.

Fresh Oil
• Apart from taking the usual care and observing hygiene rules, there is no need to take any special precautions when handling fresh oil.

Waste Oil
• Waste oil can contain harmful contaminants which may cause skin cancer, allergies and other illnesses.

Attention!
Oil is a toxic substance. Should you swallow any oil, do not try to vomit. Contact a doctor immediately. Protect your hands with barrier cream or wear gloves to avoid contact with the skin. Wash off any traces of oil thoroughly with soap and hot water.

• Wash your skin thoroughly with soap and water.
• Use special cleaning agents to clean any dirt off your hands.
• Never wash oil residue from your skin with petrol, diesel fuel or paraffin.
• Avoid skin contact with any oily clothing.
• Do not keep any oily rags in your pockets.
• Wash soiled clothing before wearing it again.
• Ensure that any oily footwear is disposed of in the proper manner.
Measures in case of injury through oil

**Eyes:**
Should any oil be splashed into your eyes, rinse with water for 15 minutes. If the eye is still irritated, contact a doctor immediately.

**If oil is swallowed**
If oil is swallowed, it is important not to induce vomiting. Contact a doctor immediately.

**Skin irritation caused by oil**
In case of prolonged skin contact, wash off the oil with soap and water.

**Oil Spills**
Use either sand or a suitable granular absorbent to soak up any spilt oil. Dispose of the oil-contaminated absorbent in the proper manner.

**Oil Fires**
Never use water to extinguish an oil fire. The oil will float on the water causing the fire to spread.

Burning oil-lubricant must be extinguished using a carbon dioxide powder or foam extinguisher. Always wear respiratory equipment when dealing with fires of this type.

**Waste Oil Disposal**
Oil-contaminated waste and used oil must be disposed of in accordance with current legislation.

Waste oil must be collected and disposed of in accordance with local regulations. Never pour used oil into unsealed sewage systems or drains or onto the ground.

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**5.15 Lubricants & Hydraulic Oil**

**Hydraulic System**
The hydraulic fluid from the tractor is mixed with the hydraulic fluid from the machine.

The supplied machine hydraulic system contains Total AZOLLA ZS 32 oil.

**Lubricants**
All lubricating points on the machine can be lubricated with multigrade lubricating grease as specified in DIN 51825 KP/2K - 40.
# 6. Faults and Remedies

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<tr>
<td>Roll axle is not tight.</td>
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<tr>
<td>Ground conditions too wet.</td>
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<tr>
<td>Roll scrapers incorrectly adjusted.</td>
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