CultiPress
Please fill in the general details below (Where applicable)

<table>
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<th>MODEL</th>
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<tbody>
<tr>
<td>WIDTH</td>
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<tr>
<td>SPECIAL</td>
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</table>

Please fill in Serial plate details: Serial plate is located on the rear of the disc mainframe.

| MODEL NO. |          |
| SERIAL NO. |      |
DECLARATION OF CONFORMITY

Simba International Limited hereby declare that the Product described in this Operators Manual, and defined by the Serial Number Plate attached to the Chassis of the Machine (a part copy of which is detailed overleaf and must be completed indicating the relevant machine details), conforms with the following Directives and Regulations, and has been certified accordingly.


In order to fulfill the requirements of health and safety described in the EC Directive, the following standards and technical specifications have been taken into account:

EN 292 - 1
EN 292 - 2

THE MANUFACTURER
Simba International Limited
Woodbridge Road
SLEAFORD
NG34 7EW
Lincolnshire
NG34 7EW
England.

Telephone 01529 304654.

CERTIFIED ON BEHALF OF SIMBA INTERNATIONAL LIMITED.
Philip J. Wright. BSc (Hons) C Eng. MI Agr.E
Technical Director.
WARRANTY
TERMS AND CONDITIONS
2004

In this warranty Simba International 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 receipt by 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 Simba International 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 at the Company’s expense, or
   (b) make an allowance to the purchaser against the purchase price, or
   (c) accept the return of the machine and at the buyer’s option either:
       i) repay or allow the buyer the invoice price thereof, or
       ii) replace the machine 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 12 months from the date of receipt by the Purchaser or his nominee of the machine.

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 4 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
   (b) any repair is carried out to the machine other than by or with the express written approval of the Company or
   (c) any alterations not expressly authorized by the Company in writing are made to the machine or
   (d) the machine is damaged by accident or
   (e) 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%.
   (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 Simba International 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 Simba International Ltd., Service Dept., Woodbridge Road, Sleaford, Lincs. England. NG34 7EW, within 7 days of installing a new machine.
SIMBA INTERNATIONAL
LIMITED

FOLDING WING
4.6m, 5.5m + 6.6m MODELS

OPERATORS MANUAL & SPARE PARTS BOOK

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1. INTRODUCTION

The Simba CultiPress® range is designed to extend the capabilities of the Double Press to give an improved level surface tilth whilst also ensuring consolidation to depth. The CultiPress may be towed on its own or in tandem behind another implement e.g. Disc Harrow.

The CultiPress consists of two rows of rigid leading tines followed by a hydraulically operated levelling board then a double row of press rings.

Leading tines are spaced at 235mm centres using shear bolt protected rigid tines with point options available to suit conditions.

The levelling board consists of a series of sprung leaves with each leaf set between each front 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 the align clods with the front row of press rings.

The levelling boards are hydraulically controlled for height with contour following and board pressure maintained by means of a pair of accumulators. The hydraulic cylinders on each levelling board are a matched master and slave pair for parallel travel.

The rear row of press roll rings are intermeshed with the front row, overall ring spacing across the machine is thereby reduced to 115mm (4.5”). The action of the second row of rings is to ensure that large clods chopped by the front rings are chopped a second time to reduce overall clod size. The second row of rings are then scraped by a set of rigid scrapers attached to a rail mounted on the rear gang beam.

The use of the CultiPress in tandem with a disc harrow 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.

SAFETY

!- Never work on or under a machine unless it is fully supported.
!- Always ensure area is clear before folding/unfolding machine.
!- Ensure wing straps are fitted and taps are closed for road transport.
!- As with any hydraulic system never place hands over suspected leaks, high pressure oil can penetrate skin.
!- Do not exceed 18 Mph (28 Kph) in road transport.
!- It is the Operator's responsibility to ensure the safety of all people (including himself) when operating the machine.
!- Do not allow anyone to ride on a moving machine.
2. INSTALLATION

UNFOLDING

1. Remove the transport strap from the rear wing cylinders.
2. Open the taps on the drawbar cylinders.
3. Ensure that the parking stands are in the fully raised position.

⚠️ **WARNING:** FAILURE TO STOW THE PARKING STANDS BEFORE THE CULTIPRESS IS UNFOLDED WILL RESULT IN SERIOUS DAMAGE TO THE MACHINE.

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.

FOLDING

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 drawbar cylinders.
6. Lower the parking stands if the CultiPress is to be unhitched from the tractor in the folded position.
3. HITCHING UP

HITCHING TRACTOR UP TO CULTIPRESS

NOTE:- When the CultiPress is parked, it **SHOULD** ideally be left in the unfolded, i.e. work, position for stability, safety and ease of access for maintenance.

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.

3. Carefully operate the hydraulics to lower the drawbar and tilt the CultiPress onto the road transport wheels. Fully extend the drawbar cylinders.

4. This allows the levelling boards to be fully raised so that when the CultiPress 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 up into the gangs.

HITCHING A DISC HARROW UP TO THE CULTIPRESS

NOTE:- When the CultiPress is parked, it **SHOULD** ideally be left in the unfolded, i.e. work, position.

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

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

3. Lower the disc harrow to the ground.

4. Connect the four hydraulic hoses from the CultiPress into the disc harrow rear outlets ensuring that the two wing hoses are together and the two drawbar cylinder hoses are together. Ensure that the folding circuits and lift drawbar circuits are coupled correctly.

5. Connect the control panel extension lead.

6. Raise the CultiPress drawbar above the disc drawbar (200mm approx.).

7. Close the two shut off taps on the CultiPress drawbar cylinder.
8. Raise the disc harrow to the same height as the CultiPress drawbar then reverse the disc harrow to couple the two machines together.

9. Open the shut off taps on the CultiPress drawbar. Operate the hydraulics to lower the drawbar tilting the CultiPress onto the road transport wheels. Fully extend the drawbar cylinders.

10. Fully raise the levelling boards so that when the CultiPress is folded the free ends of the levelling boards do not protrude beyond the 3m transport width. Fully raise the levelling boards.

11. Operate the hydraulics to fold the wings.

12. Operate the hydraulics to lift the disc harrow into the transport position.

13. Fit the disc harrow transport straps.

14. Fit the CultiPress wing transport strap to tie the two wing sections together.

15. Ensure that parking stands are locked up into the gangs.

When the CultiPress is used in tandem with a disc harrow the disc should be set to the operators manual i.e. front disc gang to be 50mm closer to the ground than the corresponding disc blade on the rear gang.

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

The frame may be levelled by altering the rearward tilt of the CultiPress to increase or reduce the loading on the disc rear drawbar.

NOTE:- When the CultiPress is used with disc harrows fitted with hydraulic front gang angling, a separate pair of hydraulic service pipes may be required to operate the CultiPress wing and levelling board circuit.
4. PREPARING THE CULTIPRESS FOR WORK

1. Ensure that the machine is fully raised.

2. Remove the transport strap from the wings.

3. Open the taps on the drawbar cylinders.

4. Ensure that the wing parking stands are fully raised and locked into the wings.

   ! WARNING: FAILURE TO STOW THE PARKING STANDS BEFORE THE CULTIPRESS IS UNFOLDED WILL RESULT IN SERIOUS DAMAGE TO THE MACHINE.

5. Operate the hydraulics to fully unfold the wings.

6. Operate the hydraulics to fully raise the levelling boards. Ensure that the levelling boards raise evenly.

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

8. Draw the CultiPress into work then set the desired pitch of the machine by adding or removing shims from the two drawbar cylinders. The chassis should ideally be set to run level.

5. OPERATION

In work the wing cylinders should be fully extended and the chassis horizontal front to rear. 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 rough casting effect 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 CultiPress 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 front row of rings which could lead to reduced drive and hence blockage of the axles.
PITCH CONTROL

Pitch control on the CultiPress 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. Ensure that equal quantities of shims are added or removed from each cylinder.

Running the CultiPress level allows the front and rear 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 front row of 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. For details on tightening the axle see the Weekly Service Section 3.

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

In practice it is possible to use the CultiPress 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 CultiPress. 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 CultiPress is used tilted onto the rear row of rings the loading on the disc harrow 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 harrow levelling springs should allow the disc harrow 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 CultiPress onto the transport wheels during headland turns whether the machine is used independently or in tandem with a disc harrow.
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 front row of press rings.

With the chassis set level, lower the levelling boards until they 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. Use the hydraulics to raise and lower the boards to carry more or less soil when levelling the headland troughs for example.

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

REAR DRAWBAR

Some CultiPress models are fitted with an optional hydraulic rear drawbar. This may be used to trail a second roll. The hydraulic cylinders on the front and rear drawbars are linked together for headland turns and for coupling up to other implements.

In work the CultiPress lift circuit should be run in the FLOAT position on the tractor spool to allow the combination to find the easiest line of pull.
### 6. TROUBLESHOOTING

<table>
<thead>
<tr>
<th>SYMPTOM</th>
<th>FAULT</th>
<th>REMEDY</th>
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<tbody>
<tr>
<td>Front roll axle starts to block regularly.</td>
<td>Machine running too tail low.</td>
<td>Shorten work drawbar cylinder until main frame is horizontal or just tail low. Reduce quantity of shims in depth stop unit.</td>
</tr>
<tr>
<td>Front to rear ring tracking out of alignment.</td>
<td></td>
<td>Reset ring centres to run rear rings centrally between the front rings.</td>
</tr>
<tr>
<td>Roll axle is not tight.</td>
<td></td>
<td>Tighten axle. (see page 12)</td>
</tr>
<tr>
<td>Ground conditions too wet.</td>
<td></td>
<td>Wait for more suitable conditions.</td>
</tr>
<tr>
<td>Front to rear ring tracking out of alignment.</td>
<td></td>
<td>Reset ring centres to run rear rings centrally between the front rings.</td>
</tr>
<tr>
<td>Rear roll axle starts to block regularly.</td>
<td>Machine running too tail high.</td>
<td>Lenghten work drawbar cylinder until main frame is horizontal or just tail low. Increase quantity of shims in depth stop unit.</td>
</tr>
<tr>
<td>Roll axle is not tight.</td>
<td></td>
<td>Tighten axle. (see page 12)</td>
</tr>
<tr>
<td>Ground conditions too wet</td>
<td></td>
<td>Wait for more suitable conditions</td>
</tr>
<tr>
<td>Front to rear ring tracking out of alignment</td>
<td></td>
<td>Reset ring centres to run rear rings centrally between the front rings.</td>
</tr>
<tr>
<td>Rear roll scrapers incorrectly adjusted.</td>
<td></td>
<td>Set scrapers to run just clear of rings and centrally between each ring.</td>
</tr>
<tr>
<td>Levelling boards drop at headland turns.</td>
<td>Tractor spool valve in float position.</td>
<td>Operate levelling boards using pressure only.</td>
</tr>
<tr>
<td>Levelling boards become unphased.</td>
<td>Tractor spool valve in float position.</td>
<td>Operate levelling boards using pressure only.</td>
</tr>
</tbody>
</table>
7. TRANSPORT

CHANGING FROM WORK TO ROAD TRANSPORT

1. Fully raise the levelling boards.

2. Raise the machine onto the transport wheels.

3. Operate the hydraulics to 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 drawbar cylinders.

When using the CultiPress in tandem with a disc harrow the disc should be set to the operators manual i.e. front disc gang 50mm closer to the ground than the corresponding disc blade on the rear gang.

With both machines in the transport position i.e. raised and folded, the top frame of the disc should be slightly nose down or horizontal even when the downward load from the CultiPress in the transport position is applied to the drawbar of the disc harrow. The top frame 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.

NOTE:- It may be necessary to shorten the levelling springs until the top frame of the disc harrow is horizontal or slightly nose down before moving the machines. Shortening the CultiPress drawbar cylinders will increase the load on the rear of the disc frame. If necessary this can be used to level the disc top frame for road transport.

**WARNING: CAUTION MUST BE TAKEN WHEN THE CULTIPRESS IS TRANSPORTED UP SLOPE GRADIENTS AND ACROSS SIDE SLOPES. ON WIDER MODELS, 5.5M, 6.6M, HIGHER DRAWBAR LOADINGS MAY BE ACHIEVED BY SHORTENING THE DRAWBAR CYLINDERS.**

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.

<table>
<thead>
<tr>
<th>MODEL F/W</th>
<th>TRANSPORT WIDTH</th>
<th>TRANSPORT HEIGHT</th>
<th>DRAWBAR LOAD</th>
<th>TRANSPORT SPEED</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.6m</td>
<td>2.9m</td>
<td>3.5m (11ft6&quot;)</td>
<td>800Kg</td>
<td>18Mph (28Kmh)</td>
</tr>
<tr>
<td>5.5m</td>
<td>2.9m</td>
<td>3.85m (12ft8&quot;)</td>
<td>800Kg</td>
<td>18Mph (28Kmh)</td>
</tr>
<tr>
<td>6.6m</td>
<td>2.9m</td>
<td>4.2m (13ft 9&quot;)</td>
<td>800Kg</td>
<td>18Mph (28Kmh)</td>
</tr>
</tbody>
</table>

LIGHTS

All folding wing CultiPress models are fitted with road lights and should be used when transporting the CultiPress on the road.
8. PARKING

**WARNING:** THE CULTIPRESS SHOULD BE PARKED IN THE UNFOLDED, I.E. WORK POSITION FOR SAFETY, EASE OF REHITCHING AND TO REMOVE THE FULL LOAD OF THE AXLES FROM THE BEARINGS AND WHEELS.

**WARNING:** THE CULTIPRESS MUST ONLY BE PARKED FOLDED ON THE PARKING STANDS ON FIRM LEVEL GROUND.

A parking facility is also provided by means of a parking stand located in the inner end of the front tine beam of each wing section. These should only be used on firm level ground.

1. Ensure the CultiPress is fully folded and the wing transport strap fitted.

2. Lower the machine until the drawbar pivot bolts are 600-760mm (2-2½ft) approx. clear of the ground.

3. Release the spring loaded pin in the end of the leading tine beam whilst restraining the parking stand. **DO NOT** place feet under the parking stand.

4. Lower stand until it reaches the stop in the inside of the gang beam, release the locking pin and ensure that it has locked the stand in position.

5. Repeat for the other wing.

6. Carefully lower the machine onto the parking stands.

7. Raise the drawbar slightly to allow removal of the drawbar pin. **DO NOT** allow the drawbar to start to lift the back of the tractor.

8. Move tractor clear of CultiPress drawbar, lower drawbar to the ground.

9. Release pressure in hoses and remove hoses and cables from tractor.
9. MAINTENANCE

WARNING: WHEN WORKING ON MACHINE ALWAYS ENSURE IT IS FULLY SUPPORTED SHOULD THE BALANCE OF WEIGHT BE ALTERED.

WARNING: ENSURE TRANSPORT STRAP IS FREE FROM SIGNS OF OVERLOAD, WEAR, CUTTING OR DAMAGE AND REPLACE IMMEDIATELY IF NECESSARY.

NEW MACHINES

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 is sufficient.

NOTE: For tightening of the main axle castle nuts refer to Weekly Service Section 3.

DAILY SERVICE

1. Grease roll axle bearings until grease shows.

2. Grease all grease points until grease shows.

3. Check roll rings for damage. Broken rings may lead to damage or failure of other components.

4. Check levelling board leaves for wear.

5. Check hydraulic connections for leaks. Leaking hydraulics may allow the machine to lower in work or road transport.
WEEKLY SERVICE

1. Grease roll axle bearings until grease shows.

2. Tighten all nuts and bolts including wheel nuts. Including gang and wing pivot bolts.

IMPORTANT: - Never use a hammer to assist tightening of nuts and bolts.
- Using incorrect sizes or grade of bolt may result in damage to the machine.

<table>
<thead>
<tr>
<th>MAXIMUM NUT AND BOLT TORQUES</th>
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<tbody>
<tr>
<td>M16 GRADE 8.8</td>
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<tr>
<td>M20 GRADE 8.8</td>
</tr>
<tr>
<td>M30 GRADE 8.8</td>
</tr>
<tr>
<td>M36 GRADE 8.8</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>WHEEL NUT TORQUES</th>
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<tbody>
<tr>
<td>6 STUD HUB M18</td>
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</table>

3. Check that roll axles are tight. If the roll axles are allowed to run loose the rings will become worn and may not be able to be tightened correctly as a result. An axle that blocks regularly is an indication that the axle is not tight as there is no drive between each ring.

a). Loosen the bearing pillar 'U' bolts on one pillar. This allows the pillar to move slightly when the tension is applied to the main axle castle nuts when tightening the axle. This ensures that the bearings are not preloaded, which could lead to unwarrantable early failure.

NOTE: When the axle needs tightening again, loosen the bearing pillar 'U' bolts that were not loosened the previous time. This will avoid the necessity of having to adjust the position of the scrapers each time. To maintain the front to rear tracking of the axles the corresponding pillars should be loosened.

b). Remove the split pin from the axle.

c). Tighten the axle until the single belleville washer in each triple pack is fully compressed ensuring that the split pin can then be refitted.

d). Tighten the bearing pillar 'U' bolts.
DOUBLE DISC RING AXLE MAINTENANCE

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

⚠️ SPECIALIST EQUIPMENT IS REQUIRED TO DISASSEMBLE THESE AXLES, PLEASE REFER TO PARTS LISTINGS FOR DETAILS.

⚠️ CONSULT YOUR APPROVED SIMBA DEALER UNDER ALL CIRCUMSTANCES IF DISASSEMBLY IS REQUIRED FOR ANY REASON.

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.
It is not usual to have to tighten the axles as they are preloaded at the factory.

4. Check tyre pressures. Running the machine with tyres at the incorrect pressure may cause excessive wear, overheating and possible failure.

<table>
<thead>
<tr>
<th>TYRE SIZE</th>
<th>MAX. P.S.I.</th>
<th>MAX. BAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>500/50-15.5, 10 PLY</td>
<td>42</td>
<td>2.8</td>
</tr>
</tbody>
</table>

END OF SEASON SERVICE

1. The CultiPress **SHOULD** be left parked in the unfolded (work) position.

2. Grease roll axle bearings until grease shows.

3. Grease the four wing pivot bolts.

4. Grease any exposed areas of hydraulic cylinder rod to prevent them from becoming pitted.

**NOTE:**- If the machine is parked outside for long periods after pressure washing, it is important to function the cylinders to ensure exposed areas are recoated with oil.

5. Wheel bearings are prepacked with grease at the factory but should be inspected and regreased.

6. Check for worn or damaged components. Replace if necessary.

7. Check that the roll axles are tight. Tighten if necessary. (see Weekly Service section).

8. Tighten all nuts and bolts. (see Weekly Service section).
WEARING PARTS

Any wearing parts must be replaced as necessary or damage to a more expensive item may occur.

10. SPARE PARTS

ABBREVIATIONS USED IN SPARE PARTS MANUAL

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAT.</td>
<td>CATEGORY</td>
</tr>
<tr>
<td>D/A</td>
<td>DOUBLE ACTING</td>
</tr>
<tr>
<td>FT</td>
<td>FEET</td>
</tr>
<tr>
<td>Fw</td>
<td>FLAT WASHER</td>
</tr>
<tr>
<td>M</td>
<td>METRE</td>
</tr>
<tr>
<td>MM</td>
<td>MILLIMETRE</td>
</tr>
<tr>
<td>N/A</td>
<td>NOT APPLICABLE</td>
</tr>
<tr>
<td>N.I.</td>
<td>NOT ILLUSTRATED</td>
</tr>
<tr>
<td>PT.NO</td>
<td>PART NUMBER</td>
</tr>
<tr>
<td>Q.R</td>
<td>QUICK RELEASE</td>
</tr>
<tr>
<td>R/H</td>
<td>RIGHT HAND</td>
</tr>
<tr>
<td>S/W</td>
<td>SPRING WASHER</td>
</tr>
<tr>
<td></td>
<td>GREASE POINT</td>
</tr>
</tbody>
</table>

NOTE: Left and right hand items are identified by looking from the rear of the machine in the direction of travel.

SPARE PARTS ORDERS

When ordering spare parts quote: order no. / part no. / serial no.
CULTI Press®

4.6, 5.5, 6.6m F/W SPARE PARTS
GREASE BEARING UNTIL
FRESH GREASE APPEARS
OUT OF SEALS

BELLEVILLE WASHER
P1514

PRESSED PILLAR
P7696

PRESSED STEEL
P5431

TRIPLE BELLEVILLE PACKS
EACH SIDE OF BEARING
NOT ORIENTATION OF EACH
WASHER

NOTE POSITION
OF GREASE NIPPLE

GUARD
P7697

M16x50
P1704
5 RING AXLE
REFER TO AS0354
(DISCRINGS - AS0517)

7 RING AXLE
REFER TO AS0355
(DISCRINGS - AS0521)

7 RING AXLE
REFER TO AS0355
(DISCRINGS - AS0521)

5 RING AXLE
REFER TO AS0354
(DISCRINGS - AS0517)

5.5m R/H WING
P7709

5.5m L/H WING
P7710

CULTIPRESS - 5.5m F/W AXLE LOCATION
ALL 5 RING AXLES
REFER TO AS0595
(DISCRING OPTION REFER TO AS0517)
CULTIPRESS - 5 RING AXLE LAYOUT (1155 o/a)
PRESS - 7 DISC RING AXLE LAYOUT (INBOARD PILLAR)
CULTIPRESS F/W - LEVELLING BOARD CIRCUIT

Refer to AS0403 for tap position

Refer to AS0357

15. P7845 SOLENOID VALVE VS80N 12VDC/VSCMO6WD
16. 30. P0109 2500mm HOSE (811) (5.5m ONLY)
17. 29. P5343 07x1.15 CYLINDER (NON SELF BLEED)
18. 28. P0315 08x3x130 CYLINDER (NON SELF BLEED)
19. 1. P2271 MALE-FEMALE 90° ELBOW
20. 23. P2260 1450mm HOSE
21. 22. P0186 610mm HOSE (261)
22. 21. P7949 1300mm HOSE
23. 20. P7617 1350mm HOSE 90° SWEEP 1 END
24. 19. P7960 1350mm HOSE 90° SWEEP ENDS ROTATED 90°
25. 18. P7642 2000mm HOSE 90° SWEEP ENDS ROTATED 0° (4.6m)
26. 17. P0182 2800mm HOSE (611) (6.6m ONLY)
27. 16. P7620 ONE WAY CHECK VALVE 0.5 BAR
28. 15. P7767 30 BAR ACCUMULATOR

PART NUMBER FROM SERIAL NO. ISSUE DRAWING NO.

BAC/ASS UPDATED

8300 8319 2 AS0358
TAP 'A' MUST BE IN ...i.e.
CLOSED POSITION i.e NOTCH
IN TOP OF SQUARE ACROSS
BODY OF TAP.

TAP 'B' MUST BE IN THE
OPEN POSITION i.e NOTCH
IN TOP OF SQUARE IN LINE
WITH BODY OF TAP.

REFER TO AS0358

TAP 'B' ONLY FITTED ON
FOLDING WING MODELS.

WHEN SYSTEM IS BLED AND TAPS
ARE SET IN POSITION, REMOVE ALL
HANDLES. REFIT NOTCHED LOCKING
PLATE TO LOCK TAP IN POSITION.
FIT 3xM10 FLAT WASHERS ABOVE
THE LOCKING PLATE, THEN THE
LOCKING SCREW.

CULTIPRESS - BLEED SYSTEM LOCK OFF TAP SETTINGS

DRAWN 10/9/97
PART NUMBER 8300
UPDATED
FROM SERIAL NO. 1
TO SERIAL NO. 1
ISSUE AS0403
CULTIPRESS LEVELLING BOARD BLEEDING

4.6m, 5.5m + 6.6m FOLDING WING MODELS

1. ADJUST PRESSURE RELIEF VALVE ON CENTRE CHASSIS TO GIVE MAXIMUM PRESSURE. I.E. WIND IN.

2. TILT MACHINE FULLY ONTO WHEELS IN THE UNFOLDED POSITION.

3. OPEN BOTH TAPS ON ONE OF THE LEVELLING BOARD MASTER CYLINDERS I.E. OUTERMOST CYLINDERS.

4. CLOSE BOTH TAPS ON THE OTHER LEVELLING BOARD MASTER CYLINDER.

5. PRESSURE LEVELLING BOARDS DOWN FOR 60secs.

6. CLOSE BOTH TAPS ON THE FIRST LEVELLING BOARD MASTER CYLINDER.

7. OPEN BOTH TAPS ON THE SECOND LEVELLING BOARD MASTER CYLINDER.

8. PRESSURE LEVELLING BOARDS DOWN FOR 60secs.

9. OPEN THE TAPS ON THE MAINFRAME PORT OF BOTH LEVELLING BOARD MASTER CYLINDERS. LEAVE THE TAPS BETWEEN THE PORTS CLOSED.

9. RAISE LEVELLING BOARDS FULLY THEN HOLD FOR 15secs. EACH BOARD SHOULD RAISE PARALLEL AND BOTH CYLINDERS ON EACH BOARD SHOULD CLOSE AT THE SAME TIME.

NOTE: THE BOARDS MAY NOT LIFT PARALLEL TO EACH OTHER, THIS ACCEPTABLE.

10. LOWER LEVELLING BOARD.

11. IF THE LEVELLING BOARDS DO NOT LIFT PARALLEL REPEAT STEPS 3 TO 10 UNTIL THE BOARD IS CORRECTLY BLED.

12. RAISE AND LOWER LEVELLING BOARDS TO ENSURE OPERATION IS PARALLEL.

13. RAISE LEVELLING BOARDS WHEN CORRECTLY BLED.

14. LOWER MACHINE ONTO BOTH SETS OF RINGS.

15. REMOVE THE HANDLE FROM EACH TAP BETWEEN THE PORTS ON BOTH MASTER CYLINDERS, REPOSITION LOCK PLATE TO LOCK THE TAP IN THE CLOSED POSITION. REFER TO AS0403.

16. REMOVE THE HANDLE FROM EACH TAP AT MAINFRAME PORT ON BOTH MASTER CYLINDERS, REPOSITION LOCK PLATE TO LOCK THE TAP IN THE CLOSED POSITION. REFER TO AS0403.

17. ADJUST PRESSURE RELIEF VALVE TO GIVE MINIMUM PRESSURE. I.E. WIND OUT.

18. LOWER LEVELLING BOARD, ADJUST PRESSURE RELIEF VALVE TO 390-400psi.