Aqueel Press
Please fill in the general details below (Where applicable)

<table>
<thead>
<tr>
<th>MODEL</th>
<th>WIDTH</th>
<th>MOUNTED/TRAILED</th>
<th>HOPPER TYPE</th>
<th>SPECIAL</th>
</tr>
</thead>
</table>

Please fill in Serial plate details: Serial plate is located on headstock or drawbar

<table>
<thead>
<tr>
<th>MODEL NO.</th>
<th>SERIAL NO.</th>
</tr>
</thead>
</table>
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.

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.
1. INTRODUCTION

The Simba Folding Wing Aqueel Press is designed to give an improved surface cultivation effect whilst also ensuring consolidation to depth. The Aqueel Press may be towed on its own or in tandem behind another implement e.g. Disc Harrow.

The use of the Aqueel Press 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 and minimise slug problems.

The gangs are able to float over any undulations on the ground due to their floating frames.

The Simba Aqueel is a polyurethane based specialist self-cleaning tyre. The basic benefit of Aqueeled ground (reservoir tillage) is gained on light, easy working soils that can slump or compact.

SAFETY

!- Never work on/or under 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
!- Especially with mounted models make sure the front axle of tractor is sufficiently ballasted.
!- Do not exceed 18Mph.

!- Operator should take extra care when operating machine near other people.
!- Do not allow anyone to ride on moving machine
2. FOLDING AND UNFOLDING

UNFOLDING

1. Ensure machine is fully raised.
2. Remove the transport strap from the rear wing cylinders.
3. Open the taps on the drawbar cylinders.
4. Ensure that the parking stands are in the fully raised position.
5. **WARNING:** FAILURE TO STOW THE PARKING STANDS BEFORE THE AQUEEL PRESS IS UNFOLDED WILL RESULT IN SERIOUS DAMAGE TO THE MACHINE.
6. Operate the hydraulics to fully unfold the wings.
7. 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 Aqueel Press is to be unhitched from the tractor in the folded position.
3. HITCHING UP

HITCHING TRACTOR UP TO AQUEEL PRESS

NOTE:- When the Aqueel Press 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 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 (if applicable) 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 Aqueel Press onto the road transport wheels. Fully extend the drawbar cylinders.

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

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

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

HITCHING A DISC HARROW UP TO THE AQUEEL PRESS

NOTE:- When the Aqueel Press 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 Aqueel Press 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 Aqueel Press 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. Raise the Aqueel Press drawbar above the disc drawbar (200mm approx.).


7. Raise the disc harrow to the same height as the Aqueel Press drawbar then reverse the disc harrow to couple the two machines together.
8. Open the shut off taps on the Aqueel Press drawbar. Operate the hydraulics to lower the drawbar tilting the Aqueel Press onto the road transport wheels. Fully extend the drawbar cylinder.

9. Fully raise the levelling boards (if fitted) so that when the Aqueel Press is folded the free ends of the levelling boards do not protrude beyond the 3m transport width.

10. Operate the hydraulics to fold the wings.

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

12. Fit the disc harrow transport straps.

13. Fit the Aqueel Press wing transport strap to tie the two wing sections together.

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

When the Aqueel Press 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 Aqueel Press is applied to the drawbar of the disc harrow.

The frame may be levelled by altering the rearward tilt of the Aqueel Press to increase or decrease the loading on the disc rear drawbar.
4. PREPARING THE AQUEEL PRESS 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 AQUEEL PRESS 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 (if fitted). Ensure that the levelling boards rise 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 Aqueel Press into work then set the desired pitch of the machine by adding or removing shims from the drawbar cylinder. 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 (if fitted instead of Aqueels) 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 Aqueel Press should be run with the chassis level front to rear by extending the drawbar cylinders to the necessary position. In practice it is possible to use the Aqueel Press on ground conditions that are unsuitable to achieve the desired effect, and it is usually possible to operate the press 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 disc and Aqueel Press combination.

When the Aqueel Press is used tilted onto the rear row of rings (on machines configured with two rows of rings) for increased consolidation/ clod breaking action the loading on the disc harrow 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.

It is not necessary to tilt the Aqueel Press 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 Aqueel Press into corners when working headlands ensure that the levelling boards are fully raised and the machine tilted onto the set of Aqueels/rings far enough to allow the lower ends of the sprung leaves to clear the ground.
6. TRANSPORT

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 Aqueel Press 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.

Extreme caution must be taken when the Aqueel Press is transported up steep gradients and across side slopes. On the wide models, 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.

**NOTE:** MAXIMUM ROAD TRANSPORT SPEED 20 MPH (30 KPH).

**CHANGING FROM WORK TO ROAD TRANSPORT**

1. Remove the disc harrow wing locking bolts.
2. Open the taps on the Aqueel Press drawbar and wing fold cylinders (if fitted).
3. Operate the hydraulics to raise the disc and Aqueel Press.
4. Operate the hydraulics to fold the wings on both the disc harrow and the Aqueel Press.
5. Fit the wing transport chains to both machines.
6. Fit the transport straps to the disc harrow.
7. Close the taps on the Aqueel Press drawbar and wing fold cylinders.

**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 Aqueel Press drawbar cylinder will increase the loading on the rear of the disc frame. If necessary this can be used to level the disc top frame for road transport.
7. MAINTENANCE

WARNING: WHEN WORKING ON MACHINE ALWAYS ENSURE IT IS FULLY SUPPORTED SHOULD BALANCE OF WEIGHT BE ALTERED, IF A ROLL GANG IS REMOVED FOR EXAMPLE.

THE WING CIRCUIT IS CONTROLLED BY AN OVERCENTRE VALVE 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 SIMBA DEALER, AND DETAILED MAINTENANCE INSTRUCTIONS.

PLEASE REFER TO YOUR SIMBA DEALER IN THE EVENT THAT A CIRCUIT CONTAINING AN OVERCENTRE VALVE REQUIRES MAINTENANCE.

All nuts and bolts should be kept free of dirt, threads well greased and as tight as recommended. However bolts at pivot points should not be over tightened.

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: When tightening the main axle castle nuts, loosen the bearing pillars to avoid preloading the bearing housings and pillars (see Weekly Service Section 3).

DAILY SERVICE

1. Grease Double Disc axle bearings until grease shows. Do not grease Aqueel roll bearings.

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

1. Grease Double Disc axle bearings until grease shows. Do not grease Aqueel roll bearings.

2. Tighten all nuts and bolts including wheel nuts. Vibration through the machine may cause the nuts and bolts to work loose leading to wear.

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

**MAXIMUM NUT AND BOLT TORQUES**
- M16 GRADE 8.8 - 24 KG.M. (176 lb.ft.)
- M20 GRADE 8.8 - 48 KG.M. (352 lb.ft.)
- M30 GRADE 8.8 - 150 KG.M. (1100 lb.ft.)
- M36 GRADE 8.8 - 280 KG.M. (2055 lb.ft.)

**WHEEL NUT TORQUES**
- 6 STUD HUBS M18 - 27.7 KG.M. (200 lb.ft)

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 DD 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.

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>400/60-15.5, 10 PLY</td>
<td>50</td>
<td>3.5</td>
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</tbody>
</table>

5. Check wing to gang pivot bolts are tight.

END OF SEASON SERVICE

1. The Aqueel Press MUST be left parked in the unfolded (work) position.

2. Grease Double Disc axle bearings until grease shows. Apply one pump only of grease from a grease gun to Aqueel roll bearings.

3. Grease the four wing pivot bolts.

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

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 to avoid damaging other components.

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)
Maintenance of Aqueels

Wear will occur in Aqueels during normal use. This wear can be reduced by taking sensible precautions.

- Ensure that ground conditions are correct for using an Aqueel roller. It is a clear indication that ground conditions are too hard/stony if the visual effect of the Aqueel roller is negligible. Attempting to use the Aqueel in these conditions will result in vastly increased wear rates coupled with minimal results.

- Minimise sharp turns in work or at headlands.

- Avoid prolonged exposure to frost and sunlight as these may degrade the stability of the compound.

- Avoid long term parking under load as this can lead to permanent deflection of the teeth. If possible the roll should be detached and propped up for storage.

Disposal of Aqueels

The manufacturing process for Aqueels is clean, non-carcinogenic, CFC free, and releases no harmful toxins which could damage the atmosphere.

The material used in the Aqueel is polyurethane based. Consequently its disposal is safe. The material is fully recyclable and emits no harmful toxins. Additionally, any material abraded by and into the soil through normal use is safe. This material is bio degradable over time, and emits only Nitrogen as part of the degradation process, which is beneficial to the soil.

The normal means of recycling is to grind the material into small aggregates which in turn can be bound for use as matting, and similar applications. Simba recommend that you contact your local recycling centre to dispose of your worn Aqueels.

WEARING PARTS

Any wearing parts must be replaced as necessary or damage to a more expensive item may occur.
AQUEEL PRESS F/W 2001. (LIGHT FRAME)
6.6, 7.6 & 8.2m WING HYDRAULIC CIRCUIT.
AQUEEL PRESS F/W 2001. (LIGHT FRAME)
4.6m, 5.5m & 6.1m WING HYDRAULIC CIRCUIT.
<table>
<thead>
<tr>
<th>ITEM</th>
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<td>18</td>
<td>P06362</td>
<td>3/8&quot; BSP BANJO BLOCK C/W BOLT &amp; DOWTY'S</td>
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<tr>
<td>17</td>
<td>P09423</td>
<td>3/8&quot; BSP DOUBLE OVER CENTRE VALVE</td>
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<td>16</td>
<td>P09422</td>
<td>3/8&quot; BSP FLOW DIVIDER</td>
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<td>15</td>
<td>P00205</td>
<td>MALE QUICK RELEASE</td>
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<td>P09314</td>
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<td>RAM - Ø65 x 130mm DOUBLE ACTING</td>
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AQUEEL PRESS 2001
F/W - LEVELLING BOARD HYDRAULIC CIRCUIT
AQUEEL PRESS F/W 2001. (LIGHT FRAME)
3.8m & 4.2m WING HYDRAULIC CIRCUIT.
OUTER BEARING PILLAR R/H
P10731

CENTRE BEARING PILLAR R/H
P10729

CENTRE BEARING PILLAR L/H
P10728

CENTER BEARING PILLAR L/H
P10730

AQUEEL BEARING & CASTING
P4204 & P4202

ROLLER INNER - P11395

STUB AXLE - P11546

ROLLER OUTER - P11394

AQUEEL PRESS AXLE PARTS

DRAWN
19/06/00

UPDATED

PART NUMBER
FROM SERIAL NO.
TO SERIAL NO.
ISSUE
DRAWING NO.

ASXXXX
AQUEEL PRESS 2000
F/W - D/BAR HYDRAULIC CIRCUIT.
ENSURE GREASE NIPPLES ARE ON THIS SIDE OF PILLAR.

RAM PIN P07743
LYNCH PIN P02483
AXLE 1857mm
P7730B

PRESSED PILLAR
P7696

BEARING
P5431

DISC RING
P6994 - Ø700
P6192 - Ø600

SPOOL
P6188

NUT SPOOL
P6190

SPLIT PIN
P2489

INTERNAL SPACER
P6191

BEARING SPOOL
P5431

BEARING SPOOL
P8189

M60 CASTLE NUT
P1698

3/11/00 AXLE LENGTH CHANGED FROM 1845 TO 1857mm. PT NO NOW P7730B

AQUEEL PRESS - 8 DISC RING AXLE LAYOUT (INBOARD PILAR)

<table>
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<th>UPDATED</th>
<th>PART NUMBER</th>
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<th>TO SERIAL NO</th>
<th>ISSUE</th>
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</table>
AXLE 2091mm
P7731B

PRESSED PILLAR
P7696

BEARING
P5431

DISC RING
P8994 - ø700
P8192 - ø600

SPOOL
P8188

INTERNAL SPACER
P6191

NUT SPOOL
P8190

SPLIT PIN
P2489

BEARING SPOOL
P8189

M60 CASTLE NUT
P1698

3/11/00 AXLE LENGTH CHANGED FROM 2075 TO 2091mm. PT NO NOW P7731B

AQUEEL PRESS - 9 DISC RING AXLE LAYOUT (INBOARD PILLAR)