

MACBro



Power-Matic wool press



Made in Australia by MACBro industries P/L
Ballarat VIC 3350

For further information about any of the products shown please visit: www.macbroindustries.com.au

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Chapter I

INTRODUCTION

Welcome

Thank you for purchasing a MACBro Power- Matic Wool Press. Please use this operator's manual to become familiar with the safe operation of this equipment. All operator's must be competent in the machines operation prior to use.

If you have any questions regarding the operation, safety or service of this equipment please contact us for further information.

Kind regards

Carl & Darren Macgill
MACBro Industries

MACBro Warranty registration

This warranty registration form must be returned to MACBro. Only when this warranty registration card is completed and returned can MACBro fulfill all warranty obligations.

Dealer: _____ Postcode _____
 Address: _____ Serial #: _____
 Product: _____
 Delivered by: _____ Date _____

Important:

By executing this warranty registration:

I. The Owner:

- a) Agrees that the operator will read the operator's manual before using the product, follow all procedures in the operator's manual for the use of this product, and will exercise due care in the use of this product;
- b) Agrees that MACBro's liability for any loss or damage suffered by the owner in connection with the owner's use of this product is limited to the cost of repair or replacement of the product;
- c) Agrees that the owner will bear any loss the owner suffers as a consequence of any failure by the owner to comply with I (a) above;
- d) Agrees that the owner will fully train any person who might be required to operate the product as how to operate the product in a safe and proper manner.

*Note: The limited warranty period for this Woolpress is 24 calendar months from dispatch date and only extends to units that are on farm use. (Not wool store or industrial-unless specified)

Owner Owner's name: _____ Address: _____ _____ Postcode: _____ Phone: _____ Mobile: _____ Signature of owner: _____ Date: _____	Dealer Dealership name: _____ Address: _____ _____ Postcode: _____ Phone: _____ Mobile: _____ Signature of dealer representative: _____ Date: _____
---	---

Please return to:

MACBro Industries
 Shed 1/5
 Trewin Street
 Wendouree Victoria 3355

Terms and conditions of sale

Interpretation:

In the terms and conditions of sales, warranty terms and conditions: "MACBro" means MACBro Industries Pty Ltd- of Shed 1/5Trewin Street, Wendouree - trading as MACBro which is the seller of the Goods - "Purchaser" means the purchaser of the Goods; "Goods" means the product and, if nay, the services provided. Nothing in these warranty terms and conditions shall be read or applied so as to exclude, restrict or modify or have the effect of excluding, restricting or modifying, any condition, warranty, guarantee, right or remedy implied by law(including the Competition and Consumer Act 2010) and which by law cannot be excluded, restricted or modified.

General:

(1) The warranty terms and conditions (which shall only be waived in writing signed by MACBro) shall prevail over all terms and conditions of the purchaser to the extent of any inconsistency.

(2) This warranty may not be modified or added to without the expressed written consent endorsed hereon of a Director of MACBro.

Warranty Terms:

The warranty relating to the Goods and all other products sold and, if any, services sold or provided by MACBro are contained in these warranty terms and conditions.

Specifications: etc: Catalogues, etc: Quantities

All specifications, (without limiting the generality of same - including: drawings, particulars of weights, volumes, capacities, dimensions, load factors) are approximate only and any deviation shall not be taken to vitiate any contract with MACBro or form any claim against MACBro. The descriptions, illustrations and performances contained in catalogues, pricelists and other advertising matter do not form part of the contract of sale of the Goods. Where specifications, drawings or other particulars are supplied by Purchaser the prices made on estimates of quantities required. Should there be any adjustments in quantities above or below the quantities estimated by MACBro and set out in a quotation, then any such increase or decrease shall be adjusted on a unit rate basis according to unit prices set out herein.

Performance, Capacities, Chemicals, Liquids, Application Methods, Environmental Effects

Any performance, volumes, weights, and/or capacity figures given by MACBro are estimates only. MACBro shall be under no liability for damages for failure to obtain such figures unless specifically guaranteed in writing and any such written guarantee shall be subject to the recognized tolerances applicable to such figures. The suitability for application is the owners responsibility.

Limit of Liability

MACBro liability for Goods manufactured by it is limited to making good any defects by repairing the same, or at MACBro option by replacement, within a period not exceeding two calendar years*, after the Goods have been dispatched provided that;

- (a) The defects have arisen solely from faulty materials or workmanship;
 - (b) The Goods have not received maltreatment inattention or interference
 - (c) Accessories of any kind used/manufactured by the purchaser with the goods have been approved by MACBro;
 - (d) Where applicable, the seals on the Goods remain unbroken;
 - (e) There has been no inadequate or incorrect use, storage, handling or application of the Goods;
 - (f) There has been no use or operation of the Goods outside of the physical, electrical or environmental specifications at the Goods;
 - (g) There has been no inadequate or incorrect site preparations;
 - (h) There has been no inadequate or improper maintenance of the Goods;
 - (i) It has not been caused by fair wear and tear; and Firstly the Goods have been thoroughly inspected and any damage (from whatever cause) to the Goods (and in particular the structure, welding, seams, bolts etc).
 - (k) There has been no failure to comply with the requirements of all present or future laws or regulations relating to the Goods and/or the use and/or the operation of the Goods; and there has been no failure to maintain the goods
 - (l) The defective Goods or any damaged part of the Goods are promptly returned **free of cost to MACBro.**
 - (m) All warranty related repairs have been carried out with the prior authorization of MACBro;
 - (n) If goods or any part thereof are not manufactured by MACBro, the guarantee of the manufacturer thereof shall be accepted by the purchaser and is the only guarantee given to the purchaser in respect of the Goods or that part; MACBro shall not be liable for, and the purchaser releases MACBro from, any claims in respect of faulty or defective design of any goods supplied unless such a design has been wholly prepared by MACBro and the responsibility for any claim has been specifically accepted by MACBro in writing and in any event MACBro liability hereunder shall be strictly limited to the replacement of defective parts in accordance with paragraph 6 (i) of these conditions;
- except as provided herein, all express and implied warranties, guarantees and conditions under statute or general law as to the merchantability, dissipation, quality, suitability or fitness of the Goods for any purpose or as to design, assembly, installation, materials or workmanship or otherwise are hereby expressly excluded and MACBro shall not be liable for physical or financial injury loss or damage or for consequential loss or damage of any kind arising out of the supply, layout, assembly, installation or operation of the Goods or arising out of MACBro negligence or in any other way whatsoever; this warranty shall only be available to the Purchaser and shall not be transferable by the Purchaser; this warranty in no way extends to any used Goods.

MACBro liability for a breach of condition or warranty implied is hereby limited to:

In the case of Goods, any one or more of the following:

where the law implies consumer guarantees into these terms and conditions pursuant to Part 3,2 Division 1 of Schedule 2 to the Competition and Consumer Act 2010 (C'th) ("consumer guarantees") which cannot be excluded and MACBro breaches a consumer guarantee, the loss and damage the purchaser is entitled to at law which cannot be excluded by these terms and conditions;

The replacement of the Goods or the supply of equivalent Goods

The repair of the goods;

The payment of the cost of replacing the Goods or acquiring the equivalent Goods;

- The payment of having the Goods repaired; or

In the case of services;

The supplying of the services again; or

The payment of cost of having the services supplied again.

Chapter 2

SAFETY

General

The following pages outline important safety information. At MACBro safety is a high priority. These safety and warning instructions MUST be followed to ensure the safe operation of your MACBro equipment.

Explanation of key terms used in this operator's manual are:

Danger

You will be killed or seriously hurt if you don't follow instructions

Warning

You can be seriously hurt if you don't follow instructions

Caution

You can be hurt if you don't follow instructions

Note

Is used to notify people of installation, operation or maintenance information that is important but not hazard related.

The Operator

All operators of this equipment should be adequately trained in the safe operation of this equipment, it is important that all operator's have read and fully understand the operators manual prior to using this equipment.

All new operators should be trained in an area without bystanders or obstructions and become familiar with the wool press prior to operation.

Safety Precautions

Notes

- Always read, and understand, the operator's manual prior to operation of this equipment
- It is the responsibility of the operator to ensure that there are no decals missing from the equipment and that any damaged, or missing, decals are replaced prior to operation.
- MACBro equipment ordered, or operated, outside the guideline limitations may not be warranted by MACBro for successful performance. Operators working outside these limitations do so at their own risk, unless specific advice has been sought from, and provided by: MACBro in writing.
- Inspect the equipment thoroughly for damage and wear before operator.
- Lubricate the equipment as per recommended requirements before operating.
- Do not operate the equipment while under the influence of any drugs, alcohol or if excessively tired.
- Make sure that the equipment complies with all relevant load regulations when transporting.
- When draining fluids from the equipment use appropriate, leak proof containers, do not use food or beverage containers because someone may consume the contents by mistake.

Warnings

ENTANGLEMENT IN ROTATING DRIVE LINES

Rotating drives, rollers can cause serious injury or even death when entanglement occurs. Keep hands, feet hair and clothing away from all moving parts to prevent injury: Never operate this machine with covers, shrouds, or guards removed.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Always wear close fitting clothing and safety equipment designed for the job.

Exposure to loud noise over an extended period can cause impairment or loss of hearing. Be active in the conservation of your hearing and wear appropriate hearing protection at all times.

DO NOT HEAT PRESSURIZED FLUID LINES

When conducting any process on the machine that involves heat; be aware of pressurized fluid lines in the vicinity of your work area

Pressurized lines can be easily cut when the heat over shoots the target object.

FLUIDS UNDER PRESSURE

Fluids escaping from high pressure lines can cause serious injury to skin. Hydraulic oil can easily penetrate human skin. This hazard can be avoided by

-relieving the pressure in the system.

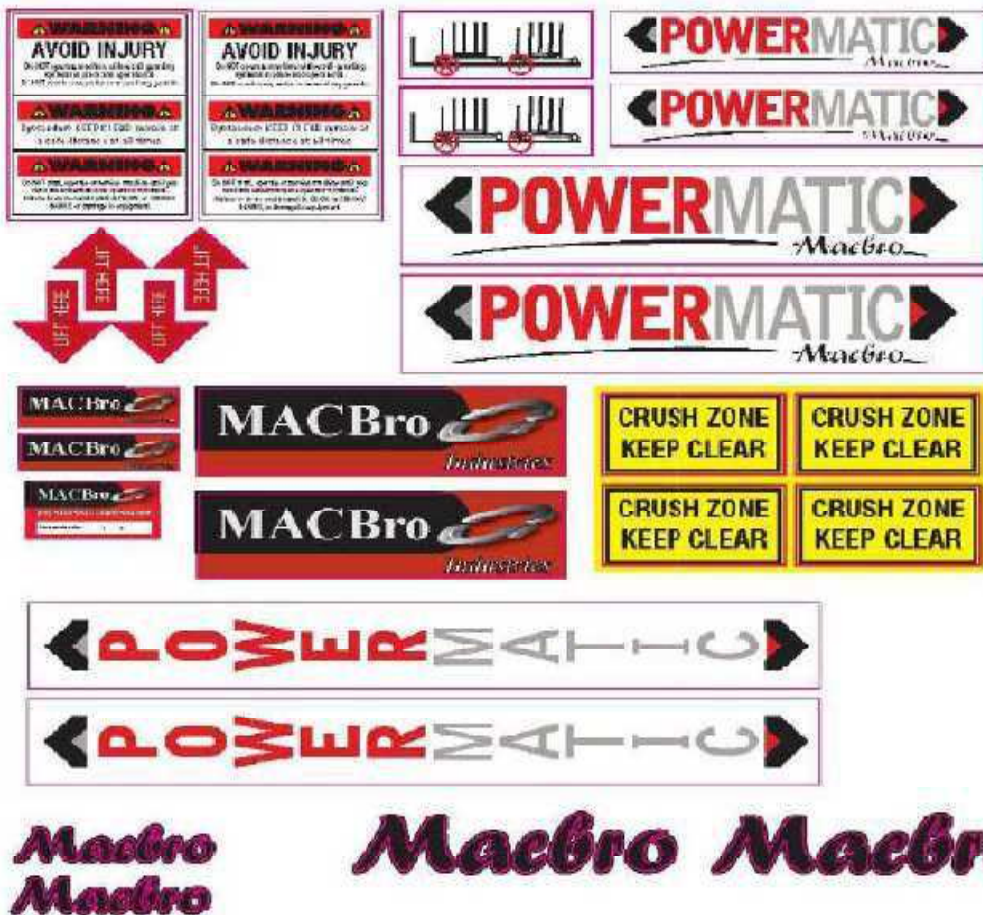
Do not disconnect any hoses or fitters while equipment is operating. Disconnecting these components while under pressure may result in uncontrolled fluid discharge which may be hazardous.

When the repair is complete ensure that all fittings and lines are secured before re-applying pressure.

- Do not operate wool press without guards fitted and in the operating position
- Do not guide wool in with hands - keep hands clear when pressing.
- Do not operate with damaged hydraulic hoses
- Check all pivot pins and cylinder clevis' regularly for wear damage and integrity
- Do not leave the platen in the raised position when travelling, or at any other time other than when in the process of pressing wool.

Decal Kit

Decal Kit



Chapter 3

GENERAL INFORMATION & SPECS

MACBro Power-Matic overview

Machine Limitations:

All MACBro equipment is subject to operating limitations, it is the operator's responsibility to ensure that this equipment is being operated within these limitations and appropriately to the operating conditions at hand.

Custom built equipment:

Where the owner of this wool press has requested that custom built equipment or options be fitted to this wool press it is necessary to understand that custom fabrication and engineering is subject to many

variables. MACBro cannot fully field test all custom built options prior to dispatch, and owners of new wool presses fitted with custom built equipment, or options, need to understand that the functionality of these items may require refining in order to operate as desired.

Scale care:

Always be extremely careful when moving press to avoid damage to scale load cell, or Monitor. When transporting wool press, remove the Monitor, and place a piece of wood under press and remove the scale foot to keep scales from being damaged.

Parts Ordering

When ordering parts please quote:

- Serial No.
- Part No. required
- Part Description
- Quantity Required

When returning parts to MACBro, or to a MACBro dealer, for service or repair all parts MUST be cleaned thoroughly before sending them.

Note:

Please ensure that all parts are clearly labeled with

the owner's details, and a brief description of the fault. MACBro are not liable for the return of any goods to MACBro or a MACBro Dealer. The goods must be returned to the point of sale.

The customer will be responsible for any cost incurred by a MACBro appointed person travelling to any site outside the point of sale.

Genuine MACBro parts only should be used on MACBro equipment

Safety Decals

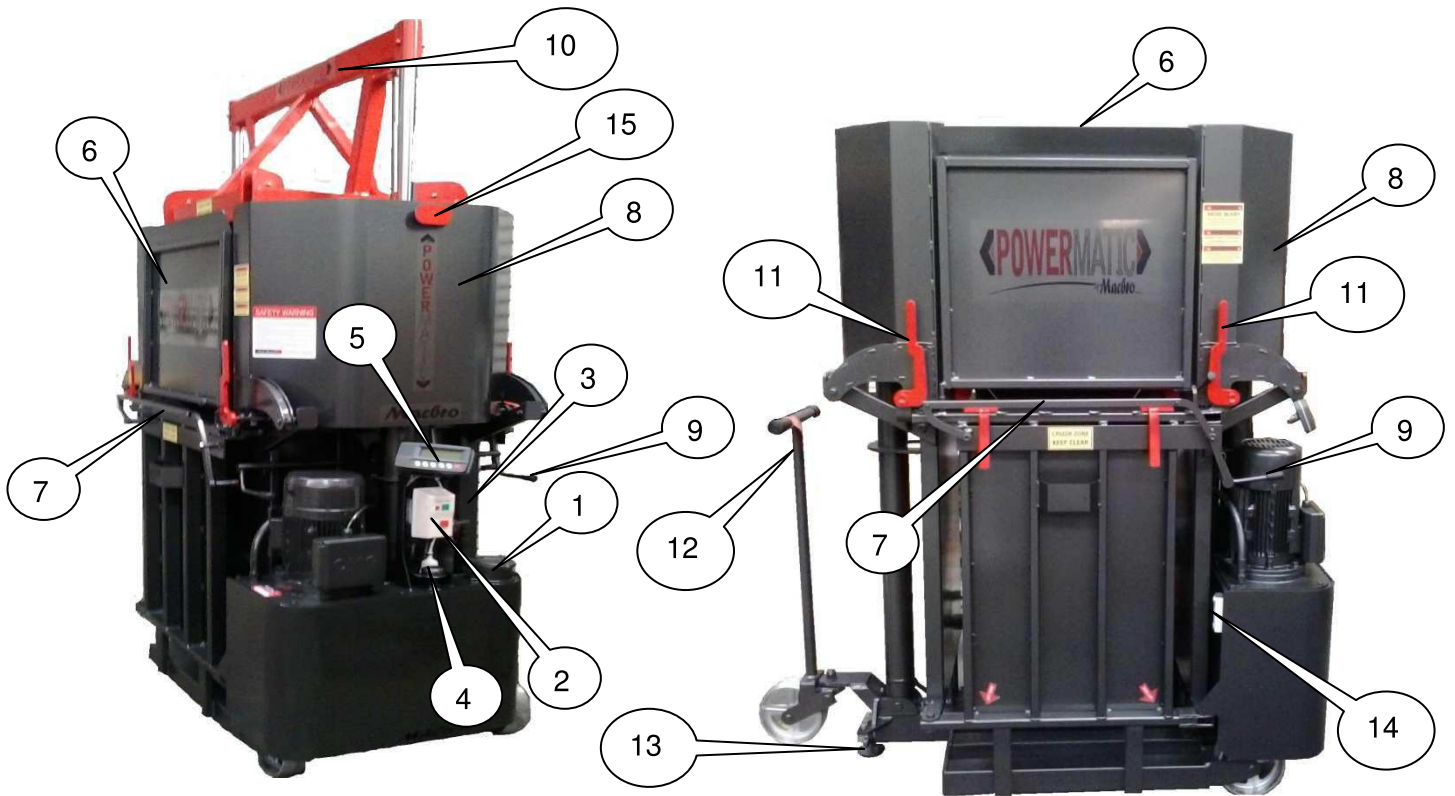
Understanding safety decals and their purpose assist's in the safe operation of your wool press. Safety decals are there for your protection and it is the responsibility of the owner operator to replace damaged and/or missing safety decals.

Regularly review safety decals with operators. It is very important to ensure that all new machine components and replacement parts include current hazard identification decals.

Replacement safety decals can be ordered from all MACBro dealers.

Chapter 3 - General Information & Specs

Key Features



Number	Description
1	Hydraulic Oil Filter
2	On/Off switch
3	Hydraulic control valve
4	Hydraulic oil tank filler cap
5	Scale monitor
6	Flap door
7	Safety bar
8	Top box
9	Platen up/down control lever
10	Platen
11	Pack clamp Handle
12	Jockey wheel
13	Scale foot
14	Hydraulic oil level sight gauge
15	Top box interlock button

Chapter 4

OPERATION

Top box and pack clamp operation

NOTE: The interlock must be pushed to close and to open top box; The below procedure should be followed with press empty and power off, to get a feel for use before pressing to avoid damage to wool press or injury to operator.

Pic 1: Shows the Top box closed and the Pack clamp in the closed position. Looking at the picture you will see the small arrow at the top, this is the 'interlock' button. To close the top box and clamp the pack inside (lay pack in press as per instruction and close top box) Place your hand on the interlock and then close the latch handle (large arrow left) firmly to piece pack and clamp- NOTE: This may take some force depending on pack-



Pic 2: Shows the top box still closed but the latch handle has released the pack to "cap off" bale (lower arrow left). Looking at the picture the interlock is **NOT** pushed in, this allows the latch to open to this point only to release pack, but not to fully open top box- This is very important as if the interlock is pressed before bale is capped off, top box Latch may come open fully! It is recommended to open latch to this position (release pack) when doing your last 'square off' pressing cycle, when load is taken off by slightly pushing handle top box latch to allow interlock to push in freely.



Pic 3: Shows the interlock pushed in (top arrow) and the top box latch (lower arrow left) going to the full open position. This is the final operation after bale is capped off and you have pressed bale so

Pins are on top of pack! And Platen is at the top position, stop button pushed in. And you are ready to open the Press to remove bale.

To avoid top box flying open, the interlock is positioned so as your hand must be in the correct position to hold weight against top box with your palm, while opening latch with the other hand.



Operation procedure

1. **Before start up, check UP/DOWN lever is in Neutral position.**
2. **Check platen and top boxes are clear and in a safe position to start (fully open or fully closed) Check Platen dampers are on top of Pins and for any other obstructions or bystanders.**

Start up (power outlet should be 15A 240Vac)

1. Press green start button and allow warming up for 2-5 minutes on first start up. (Longer if really cold)
2. Run platen to top of stroke (if above is all clear)
3. Turn press off. (red button)
4. Open top boxes. (see top box detail)
5. Place pack into press using 'loose' pack clamps front and rear:
6. Feed pack through between pack bar (3/4" rod) and sides of press, keeping pack clear of latches etc.
7. Close top boxes onto keepers. (see top box detail)
8. Holding interlock in, close top box clamp levers. (see detail)
9. Ensure fully closed onto Cam. (Lever should be vertical)
10. Start press, making sure bystanders are clear and it is safe to do so. (Green button)
11. Feed in wool - doing a plunge (cycle) each time box is full, by pushing the DOWN lever, (this will return to top and cancel cycle its self).
12. **Repeat this keeping hand's clear at all times and safety in mind!**
13. Once at desired weight (max 195kg in fleece wool) pull wool into corners over pins to flatten the top of bale and do last plunge.
14. Release pack clamps (see top box detail)
15. Cap off bale using bale clips
16. Do one more plunge (cycle) to get Pins on top of Bale. (outside of Pack)
17. Holding interlock, release top box open. (see top box detail)
18. Open front door (take care when door springs open) and remove bale using bale trolley.
19. Repeat above for all bales, taking care not to open any door or top boxes when press is running. This will result in damage and or injury!

Calibration sheet for Macbro YH-T8 scale monitor

This first section parameters, can be done off the press if need be prior too fitting, but will require power- the second section, calibration must be done on press. If recalibrating only use **calibration below******

1. With scale turned on and in normal weighing mode-press and hold the **function (B)** key until **P1** comes onto screen.
2. Use the **tare** key to set the **P1** value to 1- then press * Ⓞ to go to next.
3. Use the **tare** key to set the **P2** value to 1- then press * Ⓞ to go to next.
4. Use the **tare** key to set the **P3** value to 2- then press * Ⓞ to go to next.
5. Use the **tare** key to set the **P4** value to 4- then press * Ⓞ to go to next.
6. Use the **tare** key to set the **P5** value to 5- then press * Ⓞ to go to next.
7. Use the **tare** key to set the **P6** value to 1- then press * Ⓞ to go to next.
8. Use the **tare** key to set the **P7** value to 01- then press * Ⓞ to go to next.
9. Use the **tare** key to set the **F1** value to 1- then press * Ⓞ to go to next.
10. Use the **tare** key to set the **F2** value to 1- then press * Ⓞ to go to next.
11. Use the **tare** key to set the **F3** value to 3- then press * Ⓞ to go to next.
12. Use the **tare** key to set the **F4** value to 5- then press * Ⓞ to go to next.
13. Use the **tare** key to set the **F5** value to 1- then press * Ⓞ to go to next.
14. Use the **tare** key to set the **F6** value to 3- then press * Ⓞ to go to next.
15. Use the **tare** key to set the **F7** value to 2- then press * Ⓞ to go to next.
16. Use the **tare** key to set the **F8** value to 2- then press * Ⓞ to go to next.
17. Use the **tare** key to set the **F9** value to 16- then press *Ⓞ to go to next.
18. Use the **tare** key to set the **F10** value to 1- then press *Ⓞ to go to next.
19. Use the **tare** key to set the **F11** value to 4- then press * Ⓞ to go to next.
20. Now back at **P1**- press **clear** to exit to normal weighing mode.

****Calibration****-This must be done on the wool press with a known accurate weight being applied to press, dead centre of box. (The closer the weights to bale weight the better 150-200kg is good)

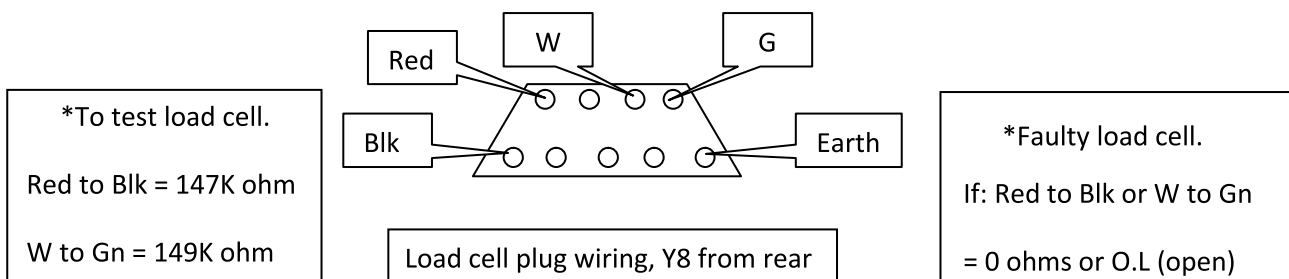
1. With press empty and closed up position, hold down the # **(A)** key and turn on scale, continue holding down # **(A)** until scale finishes start up etc- then release # **(A)** - Should come up **d1** (if not repeat step 1).
2. Use **tare** key to set **d** value to 1 and then press # **(A)** -to go to next.
3. Use **tare** key to set **P** value to 0 and then press # **(A)**-to go to next.
4. Use **tare** and zero key to set **FULL** value to 000.900 and then press # **(A)**-to go to next.
5. Use **tare** key to set **Add** value to 0 and then press # **(A)** -to go to next.
6. Now should show-**nOLOAD** - make sure press is empty and steady then press # **(A)** to go to next
7. Now shows **AdLOAD**, place known weight in centre of box. When press is steady press 'Tare' -then use the **Tare and zero** keys to set value to your known weight for calibration-say using 200kg? Will be (ie:000.200) then press # **(A)**.
8. Will now show End, press **Clear**-now should show the known weight- Finished calibration.

Upper bale weight limit

In normal weighing mode-Press and hold 'A' key until H00000 is on screen-release 'A'.

now use the 'TARE' and 'ZERO' keys to enter the upper limit (say- H00195). Then press the 'A' key again-(shows L000000, leave this at L00000) press 'A' once more, back to normal weighing mode. To clear setting repeat steps above and set both H and L to 000000.

NOTE: Remove scale monitor as vibrations may loosen wires, and scale foot. Use a timber under the base at front of wool press to keep load cell from contacting trailer floor etc, when transporting wool press from shed to shed.



Chapter 5

MAINTENANCE & TROUBLESHOOTING

Maintenance

The maintenance information is provided as a reference for the preventative maintenance of your wool press.

To ensure that you receive the best possible service, it is recommended that you carry out preventative maintenance on a regular basis and exhaust all applicable troubleshooting solutions prior to calling your dealer or MACBro for service advice.

Lubrication

Control valve shaft bushes/pivots	Oil	Top box keepers	grease
Control valve & push rod linkage	Oil	Top box latch handle pivot	Oil
Front door & side door hinge pins	Oil	Spike blade pivot pins	Oil/ WD40
Wheels	Grease		
Door latches/catches	grease		
Top box Cam locks	Anti seize		
Flap door bushes	Grease		

Oil & Filters

Changing the oil and filter is the most important Maintenance to be carried out. Perform the following service when the first criteria has elapsed, either bales or time.

First 100 bales or 12 months - Filter only.
Every 3000 bales or 36 months - Oil and filter.

To change the filter, it is simply a matter of unscrewing the lid (3 x screws) and replacing the inner filter with a new one. (or check and clean)

The oil can be changed by unscrewing the drain plug located at the bottom of the oil tank. Remove any particles on the magnet located on the drain plug. This is an integral part of the filtration system. The oil tank holds approximately 50 litres of oil. With the platen in the down position the oil level should be midway in the sight glass located on the side of the oil tank.

Oil

Quality 68 grade hydraulic, oil should be used. Powermatic. Note: Cold temperatures may cause the motor to draw excessive current (amps) until the hydraulic oil comes up to normal operating temperature.

In extremely cold operating conditions, a lighter grade oil may be required - an ISO 46 - (or 32 for the EVOLUTION model, normally 46) viscosity.

Troubleshooting

Electrical Power Supply

During the normal operation of the press the electric motor will have periods of high current usage. It is important that the voltage does not drop by more than 5% from the rated supply voltage under load.

If a test is conducted to determine whether the power supply is adequate, current and voltage should be checked simultaneously when the press is at maximum load.

Drawing of excessive current for sustained periods may cause over-heating of the motor. There is an overload switch that will switch off the motor if it draws excessive current. If this occurs, press the red stop button to reset the overload switch.

The following factors may cause excessive current usage as a result of a drop in available voltage:

- Too long lead from the power supply.
- Tightly coiled long leads.
- Cable with low current rating.
- Too light gauge mains from transformer to shed.
- Issue with Motor or Pump.

Also check that the scale is accurate, as the bale weight indicated may be too low- (or high) if this is the case check that the load cell lead running through the press base, is not damaged by rodents etc, the plug is in tight to monitor, and the monitor is ok (not been left on while transporting causing loose or broken connection etc.) and do a re calibration as needed. see cal sheet.

To assist in fault finding & rectification the following table outlines some of the most probable situations that may cause a press to malfunction.

Fault.	List of Causes & Rectifications.
Motor won't start. or press won't operate.	<ul style="list-style-type: none"> a) Check the correct voltage & amperage is Supplied to the press (circuit breaker). b) Check all leads & plugs are not broken or damaged. c) Check that the Control Valve handle is in the neutral position. (VSD- or S model) d) The Overload on the electrical starter in the power box may be tripped. Push the red stop button to reset the overload. e) Petrol engine - see Honda owner's manual. f) Motor running in reverse - * 3 phase 415volt motors only.
Press won't achieve Maximum bale weight.	<ul style="list-style-type: none"> a) Control lever not fully engaging the control valve spool into the detent up or down position. Check for full movement of the reverse linkage and control valve spool. b) Press won't press over approximately 120 kg. If press won't press full weight bale (in normal fleece wool) and it happens quite suddenly, it maybe jamming pump control. c) Oil level may be low. d) Pressure Relief Valve (PRV) may be faulty. Piston seals may be worn. See info below. e) Pump may be worn, need adjust or jammed. f) Scale is faulty- check for rodent damage to loadcell lead. or loose wires/plugs in monitor.
Press won't reverse	<ul style="list-style-type: none"> a) Check control valve linkage for binding & Tightness. Correct as required. b) Check reversing rod and linkages. c) Check reversing rod spring has a free length of 130 mm or greater, free from wool etc. d) Detent in control valve may be too soft. Check pull out force of detent, from the down position to the up position, Adjustment as needed in bottom of detent.

