

OPERATORS MANUAL

308 Series

ALLROUNDER

Double Fold





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Simplicity Australia Version 1.0

Introduction



Welcome to Simplicity Australia

The Management and Staff of Simplicity Australia would like to thank you and congratulate you on your decision to purchase a new Simplicity *Allrounder* cultivator.

The design of your Simplicity *Allrounder* incorporates many innovative features to make your farming operations easier, more efficient, and as the name suggests, simpler.

Your Simplicity *Allrounder* has been designed and manufactured with the utmost care and pride. By following the operation instructions outlined in this Operator's Manual you will have many years of trouble free operation.

This Operator's Instruction Manual has been prepared to familiarise you with the set up, operation and maintenance of your new Simplicity *Allrounder*. By reading this Operator's Instruction Manual thoroughly, the most efficient and trouble free operation of your Simplicity *Allrounder* will be achieved.

Simplicity Australia operates Australia wide through a professional agricultural equipment Dealer network which includes factory trained Sales and Service personnel. If you have any concerns with the operation and maintenance of your Simplicity *Allrounder* your local selling Dealer will be able to assist you with advice, service and spare parts back up.

Your Simplicity Australia Dealer will register your Simplicity Allrounder for warranty according to the guidelines of the Simplicity Australia Warranty Policy document included in your warranty registration booklet. Please ensure you complete the warranty registration documents in conjunction with your Dealer when you first use your Simplicity Allrounder. Your Dealer will then forward the necessary documentation to Simplicity Australia. Without the relevant documents your Simplicity Allrounder cannot be registered for warranty.

When ordering replacement parts for your Simplicity *Allrounder* be sure to quote the serial number attached to the machine which is also recorded on the warranty registration certificate.

The Management and Staff of Simplicity Australia sincerely wish you every success with your new Simplicity Allrounder and are available to assist your Simplicity Australia Dealer should they require any specialist assistance.

Yours faithfully

David W. Law Managing Director

Introduction



Company Profile

Simplicity Australia Pty Ltd designs and manufactures the most comprehensive and innovative range of Air Seeders and Tillage Equipment in Australia today.

Simplicity Australia has its origins as a small business in Dalby Queensland that started manufacturing Air Seeders in 1979, utilising an auger type metering system.

David Law, owner and Director of Simplicity Australia, saw the potential and bought the Business in 1982. He soon began using Napier distributors for metering seed and fertiliser.

By 1985 he developed and introduced his own innovative metering system to meet the diversity of Australian farming needs. He has continued to develop Air Seeder and Tillage equipment technology using the latest manufacturing methods and expertise to meet changing farmer's requirements while continually increasing product strength, quality, functionality and diversity. All of this has seen customer needs becoming standard features.

With the town of Dalby located in the centre of eastern Australia the Company easily distributes its products through a vast Dealer network Australia wide and internationally.

Product strength, quality, reliability and an extensive professional Dealer network providing customised service are key elements of the Company's success in winning its share of the Australian Air Seeder and Tillage equipment market.

Simplicity Australia products have a high degree of customer satisfaction and loyalty with recent research indicating that in excess of 95% of owners will purchase the Simplicity product again.

Today the Company's range of Air Seeders includes seven types comprising over forty different models including liquid options. To compliment Australia's Favourite Air Seeder range, Simplicity Australia also offers the *Allrounder* cultivator, the *Striker* planting unit and the innovative *X-Bar*.

With all models of Air Seeder and Tillage equipment now manufactured with the latest manufacturing methods and technology combined with a widespread, diverse and professional Dealer network, Simplicity Australia stands ready to maintain and increase its market share in Australia and meet any new challenges future farming requirements may provide.



Safety Instructions

All equipment manufactured by Simplicity Australia has been designed to provide long term trouble free operation with the personal safety of the Operator and others the number one priority.

The equipment can only be manufactured as safe as the person operating it. With this in mind it is very important that the information contained in this Operator's Instruction Manual is read and understood.

It is equally important that this Operator's Manual remains with the equipment to ensure that the Operator has all operating and safety instructions at hand.

Owners of Simplicity Australia product are encouraged to adopt a regular lubrication and maintenance program to ensure long and trouble free operation. This program should also include the maintenance of all safety and accident prevention devices fitted to the equipment as outlined in this Operator's Instruction Manual.

Throughout this Operator's Manual, and on the Cultivator itself, there are a number of 'safety alert' symbols. Each symbol appears as a white triangle with a red border. Each triangle contains a black pictogram depicting the hazard relevant to that area of the Cultivator. Any 'safety alert' symbol appearing as an exclamation mark in a red triangle will be a separate decal with associated text.

Two 'Signal' words **WARNING** and **CAUTION** are used in conjunction with the 'safety alert' symbol.

WARNING – indicates a potentially hazardous situation that could result in **DEATH** or **SERIOUS INJURY** if not avoided.

CAUTION – indicates a potentially hazardous situation that could result in **MINOR INJURY** if not avoided.

A master decal itemising each symbol with it's individual pictogram and description is located on the Cultivator. A copy of the master decal also appears on Page 2.2 & 2.3 of this Operator's Manual.

This 'IMPORTANT' box identifies procedures that, if not strictly observed, could result in damage to the equipment or other property.

At the time of delivery your authorised Simplicity Australia Dealer will request you sign a 'Safety Declaration' document. Prior to signing this document it is to your advantage to have the Dealer explain the safety features of the equipment to you. This 'Safety Declaration' document is very important and is part of the warranty registration process. Without this document being completed the registration of your Simplicity Australia product for warranty cannot proceed.

The following pages show the Safety Decals and where they are located. For the safety of the operator and others ensure that any safety decal that is damaged or unreadable is replaced.

If further information is required contact your local authorised Simplicity Australia Dealer for assistance.

The symbol identifies points of interest that could result in the more efficient operation of the equipment

Instruct all operators in safe and efficient operation

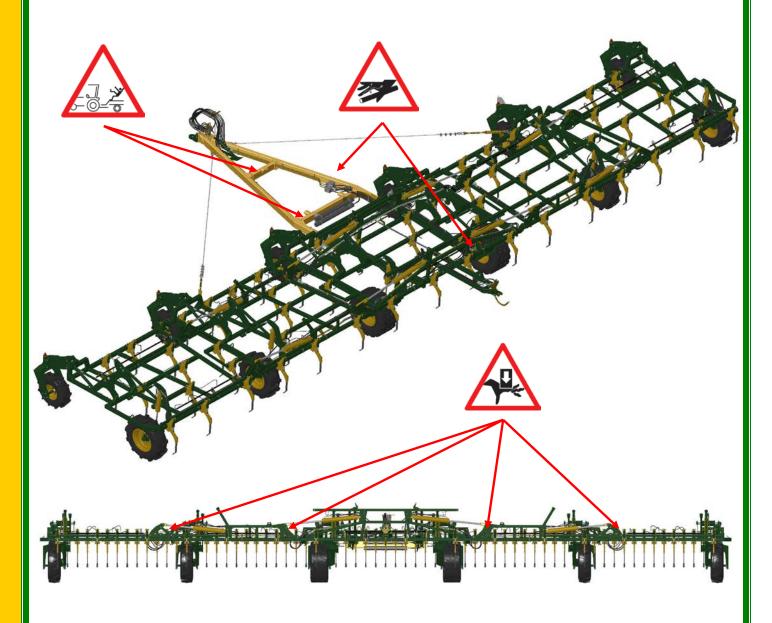
IMPORTANT

All references to the left side and right side are from the rear facing direction of travel



Safety

Location of Safety Decals LHS and Rear





WARNING: Read and understand the Operator's Manual before using this equipment. Failure to follow operating instructions could result in death or serious injury.



WARNING: Do not disconnect breakaway hydraulic couplings or any other hydraulic connection while hydraulic system is under pressure. Disconnecting hydraulic components while under pressure will result in uncontrollable discharge of hydraulic fluid which may cause injury



WARNING: Do not enter underneath cultivator at any time unless machine is secured, stationary, tractor is not running, and hydraulics are closed or have been disconnected,



WARNING: Rolling Hazard. Ensure wheels are securely blocked before unhooking.



WARNING: Ensure hitch pin is locked in position and jack is locked in transport position prior to movement.



WARNING: Never allow others to ride on the equipment. Falling from the equipment while in motion can cause death or injury



WARNING: Do NOT check for hydraulic oil leaks with bare hands. Small, almost invisible, high pressure oil leaks can penetrate the skin requiring medical attention.



WARNING: In field and road travel should not exceed 20 kph



WARNING: Be aware of the equipments height when working around overhead power lines. Contact with overhead power lines will cause serious injury or death



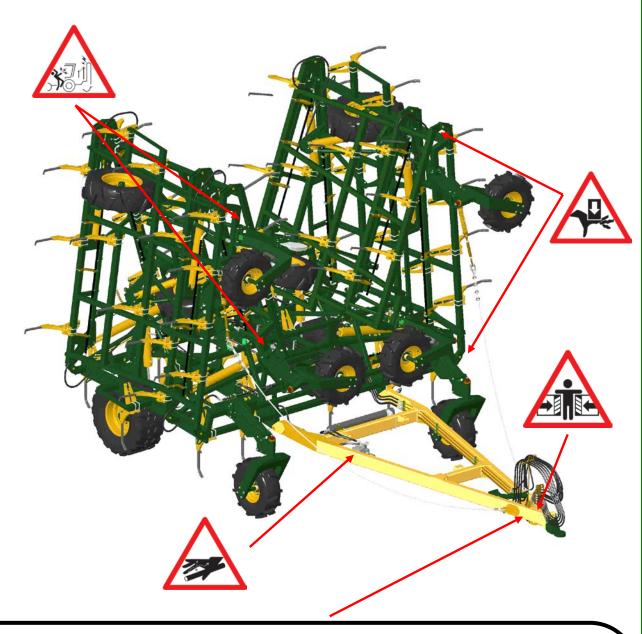
WARNING: A 'crush zone' is developed in this area when connecting the implement to the tractor. Keep bystanders clear of this area when reversing



CAUTION: Crush points. Keep hands well clear when Allrounder is folding, moving or working.



Location of Safety Decals RHS and Front





WARNING: Read and understand the Operator's Manual before using this equipment. Failure to follow operating instructions could result in death or serious injury.



WARNING: Do not disconnect breakaway hydraulic couplings or any other hydraulic connection while hydraulic system is under pressure. Disconnecting hydraulic components while under pressure will result in uncontrollable discharge of hydraulic fluid which may cause injury



WARNING: Do not enter underneath cultivator at any time unless machine is secured, stationary, tractor is not running, and hydraulics are closed or have been disconnected,



WARNING: Rolling Hazard. Ensure wheels are securely blocked before unhooking.



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WARNING: Be aware of the equipments height when working around overhead power lines. Contact with overhead power lines will cause serious injury or death



WARNING: A 'crush zone' is developed in this area when connecting the implement to the tractor. Keep bystanders clear of this area when reversing



CAUTION: Crush points. Keep hands well clear when Allrounder is folding, moving or working.



Road and Field Travel

The Simplicity *Allrounder* is designed with the purpose of **in field** seed planting (minimum till and conventional), and also primary and secondary tillage in mind and therefore is not designed for continuous, high speed, road travel.

However, it is understood that the locations of some working areas would necessitate that the Simplicity *Allrounder* be moved on public roads from time to time for the purpose of carrying out tillage operations.

The Simplicity *Allrounder* has been designed with this in mind and is quite capable of infrequent, short distance movements on the road providing the following criteria are met:

- Always use an agricultural tractor large enough and with sufficient braking capacity to stop the combined unit quickly and safely.
- Make sure all wheel nuts on the Simplicity Allrounder are present and tight.
- Make sure all hitching components are in good order with all pins secure and there is no possibility of the Simplicity Allrounder coming unhooked.
- Make sure hydraulic jack is in the transport position.
- ⚠ Traveling speed in field or on the road should not exceed 20 kilometres per hour.
- ⚠ Know the equipments' limitations when negotiating changes in road or operating conditions. Reduce tractor speed further over uneven or rough ground and be aware of potential hazards such as bridges, trees, fences, gates, water courses and other road users etc.
- ⚠ Exercise Caution when transporting the Simplicity *Allrounder* on public roads when wet. The stopping capability of the tractor will be significantly reduced.
- ▲ Exercise Caution when transporting the Simplicity Allrounder on public roads in poor visibility.
- ⚠ The dimensions of the equipment may exceed local laws regarding road travel. Always check with the relevant local authority regarding excess dimension requirements before transporting the Simplicity *Allrounder*.
- ⚠ Be aware of the height of the Simplicity *Allrounder* when traveling or working around over head power lines.
- ⚠ Do not allow others to ride on the Simplicity *Allrounder* or any part of the equipment either in field or on the road.
- Make certain there is no possibility of any component falling from the Simplicity Allrounder.

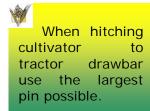
It is important to remember that the Simplicity *Allrounder* is **NOT** designed for frequent, high speed, activities and as such Simplicity Australia does **NOT** recommend on road travel other than necessary, infrequent, short distance road travel at a greatly reduced speed following all criteria outlined above.



Operation

Hooking Up

The Simplicity Allrounder is manufactured to suit specific customer requirements for a wide range of farming applications. As Simplicity Australia has no control over the make and model of the tractor or Air Seeder the Cultivator is to be used with, it is necessary to ensure you have the correct components required for the hitching process with the given machines.





WARNING: A 'crush zone' is developed in this area when connecting the implement to the tractor. Keep bystanders clear of this area when reversing

Crush points, impact and entrapment risks are hazards which are produced by the relative movement of one machine to the other when hooking up. The safety of the Operator and any assistant is of highest priority. Be aware of the hazards that hooking together machines can produce.



IMPORTANT

As the hydraulic jack is capable of transferring a great deal of force, care should be taken for smooth operation.

Be sure to:

- Connect all hydraulic lines making sure all hose ends are perfectly clean prior to connection
- Connect electrical wiring harnesses (If Applicable)
- Once Connected ensure jack is raised to the Transport Position.
- Ensure hitch pin is correct size for both tractor and cultivator. (Use as large a pin as possible).



WARNING: Ensure hitch pin is locked in position and jack is locked in transport position prior to movement.





Bleeding the Tyne Circuit

The objective of bleeding the hydraulic system is to release any pockets of air which may remain in the system.

To effectively bleed the hydraulic system all tyne cylinders must be totally compressed. To compress the tyne rams unfold wings and ensure tyne pressure lever in tractor is left in float position. Slowly lower cultivator whilst gradually moving forward. This should push the tynes back far enough to compress the rams.

Another effective method to compress the tine ram is to simply tie up end of tine, in fully brokenout position.







Tyne in Broken Out Position

Once tynes rams are compressed pressurise tyne circuit and while pressure is maintained **slightly** unscrew end cap of tyne manifold. Continue to hold open until free flow of pure oil is obtained. Re-tighten manifold end cap and be sure to top up hydraulic oil reservoir. Repeat this process on the four outside corners of cultivator manifolds.



Manifold End Cap





WARNING: Be sure to stand clear of manifold end when bleeding the system. High pressure oil leaks can penetrate the skin requiring medical attention.





Levelling the Cultivator

To create a uniform depth for seed placement or cultivating depth the *Allrounder* needs to be set to an even height across its width. Using the levelling turnbuckles, you are able to adjust the height of the bar sections, this in turn, gives control over the overall level of the cultivator and also the maximum working depth.

A good starting point is to ensure that the length; centre to centre of turnbuckles on either side are equal.



To set the level of the cultivator:

- 1) Position the *Allrounder* on flat, level ground
- 2) Unfold wings
- 3) Ensure that Lift rams have been phased (see pg 3.4)
- 4) Raise so only the wheels are in contact with the ground
- 5) Check tyre pressure adjust if necessary (See pg 4.2)
- 6) Adjust turnbuckles on rear lift wheels for centre section until level (left-right). (Ancillary devices such as spirit levels or tape measures may be used to aid in the accuracy of levelling).
- 7) Adjust turnbuckles on front castor wheels for centre section until level (front back).
- 8) Once centre section is level, repeat procedure for both wings until a consistent level is achieved across the width of the cultivator.
- 9) Ensure that all locknuts are locked.

IMPORTANT

Once turnbuckles are set – Ensure both locknuts are LOCKED





Folding

Prior to any tilting or folding operation, all safety locking pins must be removed and the hydraulic cylinders must be **phased** to ensure smooth, safe and effective movement.

To phase the cylinders: Reduce oil flow rate, and fully raise the cultivator and hold levers open momentarily then lower slightly. Repeat to allow oil to fill lines and cylinders completely and ensure that all phasing poppets are correctly seated. Once cylinders are phased all lift, tilt, and fold operations can occur smoothly.

When folding or unfolding you will notice that the wings will not travel together. This is normal as oil will attempt to flow to the least loaded side first.



WARNING: When using Hydraulic fold functions always operate smoothly and with care. Excessive force and/or violent operation may cause damage, compromising structural integrity.



Pin Locked in Transport Position

When folding for transport ensure that wings are fully folded and wing locking pins securely in place.



WARNING: Be aware of the equipments height when working around overhead power lines. Contact with overhead power lines will cause serious injury or death

After connecting hydraulic lines for the first time charge circuits prior to operation to ensure oil flow is free from airlocks and system contains only pure hydraulic oil.

IMPORTANT

Prior to any Folding/ Unfolding make certain area is free from obstructions, and be sure there are no people in the immediate vicinity of equipment











Operation

Double Fold Procedure

IMPORTANT

Prior to any Folding/Unfolding make certain area is free from obstructions, and be sure there are no people in the immediate vicinity of equipment.

For safe folding/unfolding of your double-fold Simplicity *Allrounder* it is **crucial** that you follow these steps **each and every time** a folding operation is performed.



Outer wings folded.



WARNING: When using Hydraulic tilt and fold functions always operate smoothly and with care. Excessive force and/or violent operation may cause damage, compromising structural integrity.

Step 1. Fold outer wings slowly until resting on wing stops.

Step 2. Fold one inner wing slowly until resting on stops.

Step 3. Start to fold other inner wing until wheels are off the ground.

Step 4. Flick toggle switch to isolate wing wheels.

Step 5. Operate raise-lower circuit to pull in wing wheels. (In working operation this process would result in the lowering of the cultivator)

Step 6. Slowly fold inner wing until resting firmly in the transport position. (Take care when folding wings over centre)

Step 7. Insert and lock transport pins before moving.

To unfold, follow procedure in reverse order. Be sure to never unfold outer wings without extending wing wheel.

IMPORTANT

Before attempting any folding or unfolding of the Simplicity *Allrounder* ensure the wing wheels are in the correct position for the corresponding operation. As outlined above.



Step 3: Wing off ground.



Step 6: Wings folded in transport position.





Accumulator Pressures

The accumulator is a storage area of controlled pressurised oil to maintain an appropriate pressure in the tyne circuit during the fluctuations of loads to the hydraulic system. Adjusting this pressure in turn controls the necessary break-out force for the tines

The accumulators themselves consist of a piston with pressurised Nitrogen gas on one side and a volume of oil on the other. As the volume of oil increases, the resisting force from the gas being compressed; pressurises the hydraulic lines.

To set the accumulator pressure:

- 1. Ensure one way valve switch is "off".
- 2. Activate remote and observe pressure reading on accumulator pressure gauge.
- 3. Once it reaches desired pressure, place hydraulics into float.

Accumulator Pressure Gauge

IMPORTANT

Accumulator will not work as desired if the gas pressure inside accumulator is higher than the accumulated pressure.

The breakout pressure will be approximately half of the hydraulic system pressure.

(eg. At maximum 700lb breakout pressure, the system gauge will read 1400 psi).

To adjust accumulator pressure:

- 1. Set hydraulics from float to neutral.
- 2. Turn on one way valve switch.
- 3. Adjust tyne pressure up or down as required.
- 4. Turn off one way valve switch.
- 5. Return hydraulics to float.

For operations where it is necessary to quickly reduce accumulator pressure (for example when working over shallow rock), simply turn **on** one way valve switch. Provided SCV is already in float (normal operating position) this will allow accumulator pressure to drop rapidly. When clear of obstacle, adjust tyne pressure back to normal, turn off one way valve switch, and return hydraulics back to float.

It is important to ALWAYS set the SCV control to FLOAT, and one way valve switch is OFF for all in field operation.

IMPORTANT

The Accumulator gas pressures are factory pre set to 200psi and 700psi of nitrogen gas. Do not attempt to alter these pressures



Accumulator



Hydraulic Control Block

Simplicity Australia Page 3.6 Version 1.1



Operation

Air Seeder Hitching

The Simplicity *Allrounder* is manufactured to suit specific customer requirements for a wide range of farming applications. The *Allrounder* has been designed ideally for use with a Simplicity Air Seeder in mind.

However, as Simplicity Australia has no control over the make and model of the Air Seeder the cultivator is to be used with, a range of standard air seeder hitch options are offered. Therefore, with every cultivator-seeder combination the hitching process will vary slightly, it is recommended that you follow the below steps and implement them according to your specific situation.



Air Seeder Hitched with Optional Rigid A-Frame Pull



WARNING: A 'crush zone' is developed in this area when connecting the implement to the tractor. Keep bystanders clear of this area when reversing

Crush points, impact and entrapment risks are hazards which are produced by the relative movement of one machine to the other when hooking up. The safety of the Operator and any assistant is top priority. Be aware of the hazards that hooking two different machines together can produce.



- ⚠ Attach the Airseeder using only the hardware supplied.
- ⚠ Attach safety chain
- ⚠ Connect all hydraulic lines making sure all hose ends are perfectly clean prior to connection
- ⚠ Connect 3" Seeding Kit Primary Lines
- ⚠ Ensure all pins are LOCKED in position
- ▲ Ensure moving/swiveling hitch components have been greased and have full, free movement.
- ▲ Ensure all hitching bolts are firm and locknuts are locked.



Optional Rigid A-Frame Air Seeder Hitch



WARNING: Ensure all hitch point safety chains are in place. A safety chain will assist in maintaining control of the equipment should it become separated. An uncontrollable machine could cause serious injury or death.



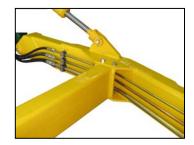


Air Seeder Hydraulic Circuit

Upon request your Simplicity *Allrounder* may have an Air Seeder Hydraulic Circuit fitted.

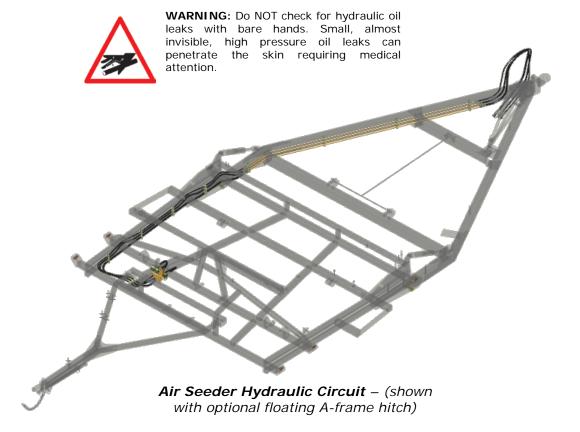
This hydraulic circuit is designed to customer specifications and will consist of either two or three hydraulic lines. In either case the circuit will include a 5/8" Pressure line and either a 3/4" or a 1" Return line, however, where necessary there may be the addition of a 1/2" Case Drain line.

These lines run as a separate circuit, apart from all the hydraulics concerned with the operation of the cultivator. The Air Seeder circuit does not pass through the hydraulic control block. Steel seeder hydraulic lines are run down the left-hand side of the cultivator pull, with traditional hydraulic lines following the frame of the centre section.



Steel Lines

At the rear of the cultivator all seeder lines are fitted into a mounted breakaway assembly (If Genuine Simplicity Seeder Hitch is ordered). This allows the cultivator to be easily separated from the seeder and used for tillage purposes which do not require a planting capability.





Operation

Notes



Operation

Notes



Lubrication and Maintenance

Owners of Simplicity Australia product are encouraged to adopt a regular lubrication and maintenance program.

By following the Pre Season, Daily, Weekly and Post Season lubrication and maintenance programs outlined in this Operators Manual and in conjunction with your preferred Simplicity Australia Dealer, long and trouble free operation is achievable.

Proper care, regular maintenance and lubrication will ensure years of trouble free operation and product life

Pre Season

Before sowing, at the beginning of the season, it is important that the pre season procedures outlined in the Schedule **Page 4.4** are checked off, and prior to use ensure all checks listed on **Page 4.3** have been completed. Following the procedures outlined in these check lists should ensure a trouble free season.

Contact your Simplicity Australia Dealer for a Pre-Season check of all equipment.

Daily Checks

The 'Daily Checklist' Page 4.2 should be used in conjunction with the daily procedures outlined in the Schedule Page 4.4 to ensure trouble free daily operation of the Simplicity "Allrounder".

Weekly Checks

The weekly <u>checks</u> outlined in the Schedule **Page 4.4** are procedures which can, but don't need to be, carried out every day. It is advisable that once a week during a period of use, *further* to the daily checks, these additional checks also be completed.

As outlined in the Lubrication and Maintenance Schedule **Page 4.4** the majority of the <u>lubrication program</u> is required to be carried out on a weekly basis. Following this weekly program is essential in achieving the maximum service life from all components of the Simplicity "Allrounder".

Post Season

Following the 'Post Season Maintenance' checklist **Page 4.3** in conjunction with the 'Post Season' procedures outlined in the Schedule **Page 4.4** prior to storage will ensure that minimal component deterioration occurs and that the cultivator is ready for trouble free operation next season.

IMPORTANT

Over greasing can shorten the service life of some components

IMPORTANT

The necessary Tyne lubrication period is entirely dependant upon application. Where the operation results in a great deal of movement in tyne pivot points more frequent greasing may be necessary. (i.e. When being used for primary tillage, or when tynes are regularly being broken out)



After some time (depending on amount of use) it is advisable to unpack the wheel bearing grease hubs and repack with fresh grease.



Daily Checklist

Check:

- Periodically check wheel nut tension throughout the first days after delivery until wheel nut tension is maintained
- Hydraulic lines are correctly coupled at all breakaway connections, and system is free from leaks
- Ram seals for leaks
- Cylinders are in phase
- Correct Hydraulic system pressure
- Oil flow is reduced when unfolding and folding
- Accumulator valve control solenoid functioning correctly
- Correct working pressures for accumulator
- Condition of tines and sweeps
- That all stands, guards and safety pins are in correct position for operation
- Air Seeding system (Seeding Kit) free from blockages and leaks (if attached)
- If fitted with floating hitch monitoring system Sensors clean and intact
- Correct Tyre inflation (see below)

Time taken to carry out Daily Checks should ensure daily trouble free operation

Wheel Nut Tension

M18 stud 27mm nut -250 lbf ft/340Nm

M22 stud 30mm nut -500 lbf ft/678Nm

Tyre Inflation:

When setting cultivator tyre pressures many variables come into play, such as; weight vs. transport weight, min/max speed, working conditions, aftermarket additions. Being each machine varies in many of these areas it is impossible if list an exact tyre pressure for each machine. Therefore below is a list of recommended tyre pressures which will suit most applications.

*The centre section tyres must be set when the machine is folded and on hard ground to determine correct tyre pressure for transport

Centre Tyres

	Tyre Size	Ply	Rec. Pressure
Rear	560/60-22.5	16	40psi
Front	12.5/80-18	16	90psi

Wing Tyres

	Tyre Size	Ply	Rec. Pressure
Rear	15.5/80-24	16	75psi
Front	12.5/80-18	16	72psi



caution: Specialist Repair. Tyre Repair or replacement should be carried out by suitably trained personnel using the correct equipment.

IMPORTANT

Failure to maintain tyre pressures within range of those listed may result in damage to the tyre as well as decreasing the life of the tyre.





Pre Season Maintenance

Maintenance should be carried out on a regular basis depending on frequency of use.

Ensure:

- All nuts and bolts are tight
- Check tyre pressure Adjust if necessary (as per page 4.2)
- Tyres in good condition
- Grease wheel bearings and check preload
- All pins are secure and are not worn
- Cultivator is level and leveling turnbuckle locknuts are LOCKED
- Hydraulic hoses are not cracked or perished
- All greaseable joints have been adequately lubricated (as per page 4.5)
- Welded joints have not fatigued
- Lift cylinders are phased correctly
- Hydraulic circuit has been bled and is free from air locks
- Adequate hydraulic oil in tractor Reservoir
- Tyne fastening diamond bolts are present and tight
- Tyine shanks and sweeps are in good condition
- Correct tyne sweeps for situation
- Air Seeding system free from blockages and not cracked or perished

Post Season Maintenance

⚠ Ensure no hydraulic circuit is stored with pressure in its system. Breakaways should be disconnected with tractor hydraulic system in float. This will ensure circuits are filled with oil at minimal pressure.

Check:

- All hydraulic components are in good condition, free from leaks, and functioning correctly
- Wheel bearings are packed with grease and have smooth movement (free from damage)
- Tyres are in good condition with an acceptable tread depth
- Cultivator is generally clean (no buildup of material which may retain moisture and cause damage)
- A suitable rust preventative is sprayed on any area where the powder coat has been damaged or worn away, and bare metal is exposed.
- Contact your Simplicity Australia Dealer and place an order for any service parts or wear and tear item such as tyne shanks, points etc.

To maintain the appearance of the powder coat finish used in production it will be necessary to wash the exterior of the *Allrounder* with water and a soft cloth.

IMPORTANT

Do not use high water pressure, abrasive materials or harsh cleaning products as irreversible scratching could occur

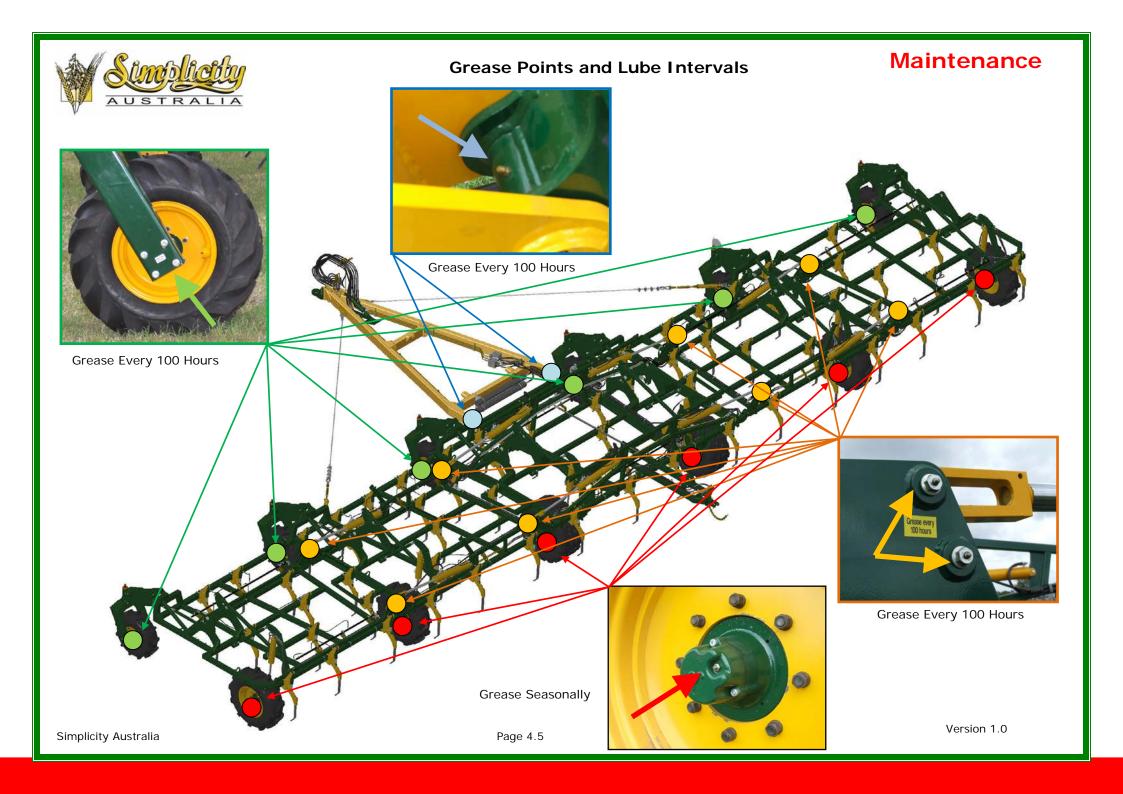
IMPORTANT

Do not use steam or hot water as a cleaning medium. Some hydraulic components such as hydraulic rams depend on the oil residue left on them as a rust barrier



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Use in conjunction with pages 4.2 & 4.3	Adjust wheel nut tension	Check wheel bearing preload	Grease wheel bearings	Hydraulic control block & hydraulic lines are free from leaks	Check fold pins are in place and bolts are tight	Hitch pins in place & secure	Hydraulic lines are securely connected	Pull pivot pins are in place and bolt is tight	Check hydraulic pins are secure with end clibs in place		Tyne Rams are free from damage and/or leaks	Tyre pressures	Grease pull pivot pins	Grease fold ram rollers	Levelling turnbuckles locknuts are LOCKED	Grease tyne pivot pins	All tyne fastening "diamond" bolts are in place & secure	Grease wheel support arm pivot pin	As per "Post Season Maintenance" (Pg 4.3)
Periodically during 1 st season use	X																		
After first ten hours		X	X	X															
Daily				X	X	X	X	X	X	X	X								
Weekly												X	X	X	X	X			
Pre Season	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
Season End																			X

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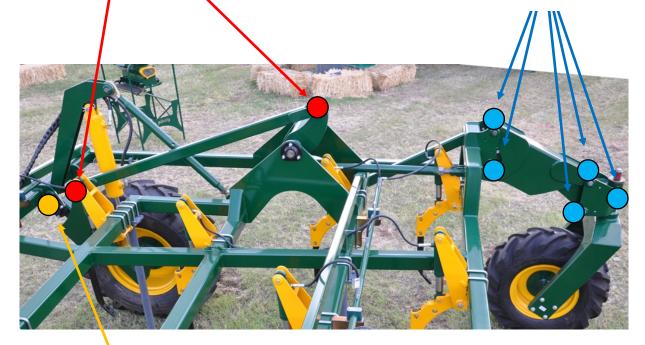
Lift Linkage Grease Points and Lube Intervals



Grease Every 100 Hours



Grease Every 100 Hours





Grease Every 100 Hours

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Tyne Grease Points and Lube Intervals



Grease Every 100 Hours



Grease Every 100 Hours





Record of Service and Repairs

Date	Service/Repair	Carried out by: Dealer/Owner	Comments



Notes



Notes
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Miscellaneous

Useful Formulae/Conversions

Length

1 km = 0.62 mile 1 mile = 1.609 km

1 m = 3.28 ft 1 ft = 0.304 m

1 mm = 0.039 inch 1 inch = 25.40 mm

Area

1 ha = 10,000 m2 = 2.47 acre

1 acre = 4840 sq. yd = 0.40 ha

1 km2 = 0.38 sq. mile 1 sq. mile = 2.589 km2

Volume

1 m3 = 35.31 cu.ft = 0.028 m3

1 litre = .22 gal. 1 gal = 4.54 litre

1 litre = 0.26 US gal = 3.78 litre

1 bushel = 8.00 gal = 1.28 ft3

1 litre = 0.027 bushel 1 Bushel = 36.36 litre

Pressure

1 psi = 6.89 kPa 1 kPa = 0.14 psi

1 Bar = 14.5 psi

Mass

1 kg = 2.20 lb 1 lb = 0.45 kg

1 kg = 1000 grams

Application Rate

1 kg/ha = 0.89 lb/acre 1 lb/acre = 1.12 kg/ha

Mass Flow Rate

kg/hr = Application Rate (kg/ha) x Area Rate (ha/hr)

kg/min= Application Rate (kg/ha) x Area Rate (ha/hr)

60

lb/hr = Application Rate (lb/acre) x Area Rate (acre/hour)

Ib/min = Application Rate (Ib/acre) x Area Rate (acre/hour)

60



Miscellaneous

Risk Assessment Hazard Checklist for *Allrounder*

Product Description	Simplicity Allrounder		
Model		Serial Number	
Date of Inspection		Location of Inspection	
Inspected by:		Signature	

Hazard	Risk Source	Safety Measure	Safety Measure Check?
Incorrect Operation	Lack of Information	 Comprehensive Operator's Manual with safety and operating information 	Yes
Crushing	Wings Falling When in Transport Position	Counter Balance Valves FittedHydraulic Jack	Yes Yes
	Hitch Dropping	Fitted • Warning decals fitted at all crush points	Yes
Falling off during operation	Riding on Cultivator during operation	 Warning Decals Fitted 	Yes
Contact with over head power lines	Transport Height	Warning decal fitted	Yes
High pressure fluid leak	Hydraulic hoses	 Hoses clamped at close intervals to prevent rubbing 	Yes
Oil ingress through skin	 Checking for hydraulic leaks with hands 	Warning decal fitted	Yes



Miscellaneous

Notes



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