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**agromaster®**  
by **FarmTech.com.au**

**Turf**

**Aervator**



**Australian Made - Australian Tough**



# OPERATION & MAINTENANCE MANUAL

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**FarmTech.com.au**



Ph: (02) 6024 6800 Fx: (02) 6024 6844

Email: [sales@farmtech.com.au](mailto:sales@farmtech.com.au)

FARM TECH MACHINERY PTY LTD  
30 Moloney Drive, Wodonga Vic, 3690.



## TO THE OWNER

Congratulations on the purchase of your new AerVator soil aerator.

Your new AerVator is designed to meet your agricultural aeration requirements. The ease of operation and low maintenance will give you many trouble free hours of operation.

Make certain that you read and understand the important instructions for the adjustments, operation and the maintenance contained in this manual. If there are any instructions which you do not fully understand, contact your Dealer for clarification prior to using the unit.

When in need of replacement parts, specify the model and serial number of your AerVator.

To give you many years of service, regular preventative maintenance should be performed, ie lubricate bearings, touch up painted areas susceptible to rust and corrosion, and store implement in a dry place in off-season when not in use.

We wish you many years of profitable use from our equipment.

MANAGEMENT & STAFF  
**FARM TECH MACHINERY PTY LTD**

# **FARM TECH AERVATOR**

**WORK SAFELY - FOLLOW THESE RULES !**  
***A CAREFUL WORKER IS THE BEST INSURANCE AGAINST AN ACCIDENT***

**\*\* BEFORE HANDLING THIS EQUIPMENT, READ THIS OPERATIONS MANUAL \*\***

1. Hands, feet, clothing and other objects must be kept away from all moving parts.
2. Use care when making adjustments.
3. Use the tool supplied or the correct equipment for the job at hand.
4. When working under or around the tines, the frame must be supported.
5. When not in use, the 3 point linkage unit should have the jackleg extended down and the safety pins engaged. This will prevent the implement from tipping when detached from the tractor.
6. Prior to lowering and unhitching, lower the jack leg(s) and insert the jack safety pin.
7. Remove tools, parts and maintenance equipment after servicing the unit.
8. Before and during operation the area should be checked to ensure that the area is clear of both obstacles, hazards and personnel.

**\* KNOW WHERE AND HOW DEEP YOUR GAS, WATER AND ELECTRICAL LINES ARE BURIED.**

9. Caution should be exercised when operating close to ditches, fences or on hillsides.
10. **WARNING:** Do not over ballast the weight box. This will result in the loss of front steering and the tractor stability. In some instances, extra front counter balancing may be required.
11. No riders other than the tractor operator. Never allow anyone to ride on the AerVator frame at any time.
12. Do not attempt to remove obstructions while the AerVator is in motion.



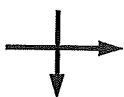
## AERVATOR – FIELD USE

1. Once in the field, lift the 4 jack stands then lower the machine to the ground.
2. Move forward to allow tines to penetrate the ground.
3. Once at best operating depth, check that the frame is level by adjusting both the top link arm and level box on RH lift arm, as required.
4. Weight may be added to get extra penetration.  
Penetration depth is governed by soil hardness due to dryness and soil compaction.

**Note:**

If a depth of only 6cm or so is achieved in hard soil conditions on the first pass, don't despair ! The first rain or irrigation will allow water into soil and not run off. Tine shatter will occur and moisture will disperse into the soil starting the recovery of hard pan.

5. Cross working:



If possible, work at 90 degrees to the previous aerating direction. This gives superior results. Working the same direction - move tractor over 1 - 2 metres to run on fresh tracks.

6. Frequency of working:  
Depending on soil condition the frequency of aeration in a year will vary. The following gives some guidelines:
  - A. Average soil conditions -  
Once in Autumn, once in Spring.  
Twice a year is an ideal annual maintenance program.
  - B. Hard soil conditions -  
Work ground to best depth, use extra weight if necessary.  
Waiting for "better" conditions is not necessarily a good idea, as the initial runover with an Aervator will allow the next rain or irrigation to move into the soil.  
Second and third workings can be planned to follow on after rain to meet aeration targets.

7. Gang Settings:

ZERO	AERATE	AERATE
0	1	2

**ZERO -**

This is a neutral setting.

Use only where a slot in the ground is required with little aeration.

Generally should not be used.

**AERATE -**

Setting 1 Most popular setting for aeration. Does not cause a lot of soil pick up off the tine.

Setting 2 This setting gives a lot more aggressive aeration and soil movement.  
This gives a larger divot off the tine.

## **AERVATOR – FIELD USE (cont'd)**

### **8. LINKAGE MACHINES -**

In stoney conditions, it is advisable to set the Tractor lift arms to the slide position (refer to Tractor Manual as necessary). Most Tractors have a locating pin on the connecting link from the lower linkage arm to the top lifting arm. The pin can be turned 90 degrees from the solid position to sliding position. This allows each lower linkage arm to move independently so the Aervator can walk over obstructions and reduce potential for breakage.

### **9. TRAILING MACHINES -**

Adjust top link on drawbar to level the machine for working.

NOTE: This arm can be shortened to give more transport clearance.

Use lock out tap on hydraulic line for transport to release the hoses. Fit transport lockouts for road transport.

For maximum weight transfer lift rear wheels off the ground.

Use wheels for depth control if less than full depth required.

### **10. TOW HITCH -**

Welded tongue on rear bar, standard.

A floating tow hitch for pulling combine or other implement, available as optional extra.

## HITCHING YOUR AERVATOR TO A TRACTOR

1. Set up the Aervator on level ground and stand on all 4 jack stands.
2. Reverse the tractor up to the Aervator, with the lower link arms at the same height of the pick up attach points on Aervator.
3. Fit the right hand pin through the Aervator attach point first.
4. Continue to attach the left hand side. You may need to use level box to lift or lower link arm to match attach point.  
3 sets of holes allow the correct position to get the lift arms to suit the working conditions.
5. Connect the top link and adjust so machine is level.  
Readjust if necessary when the machine is at working depth to keep frame level.
6. Tighten side sway chains on lower links to centralize and hold implement firm.
7. Lift Aervator off the ground with hydraulics.  
Raise jack stands to top hole for transport and working, or remove altogether if so desired.

## REGULAR MAINTENANCE

### Bearings

- Grease bearings sparingly so as not to expand the metal seals. One or two pumps every 10 working hours.

### Gang bolts

- Check regularly for tightness, particularly after changing settings.

### Tine bolts

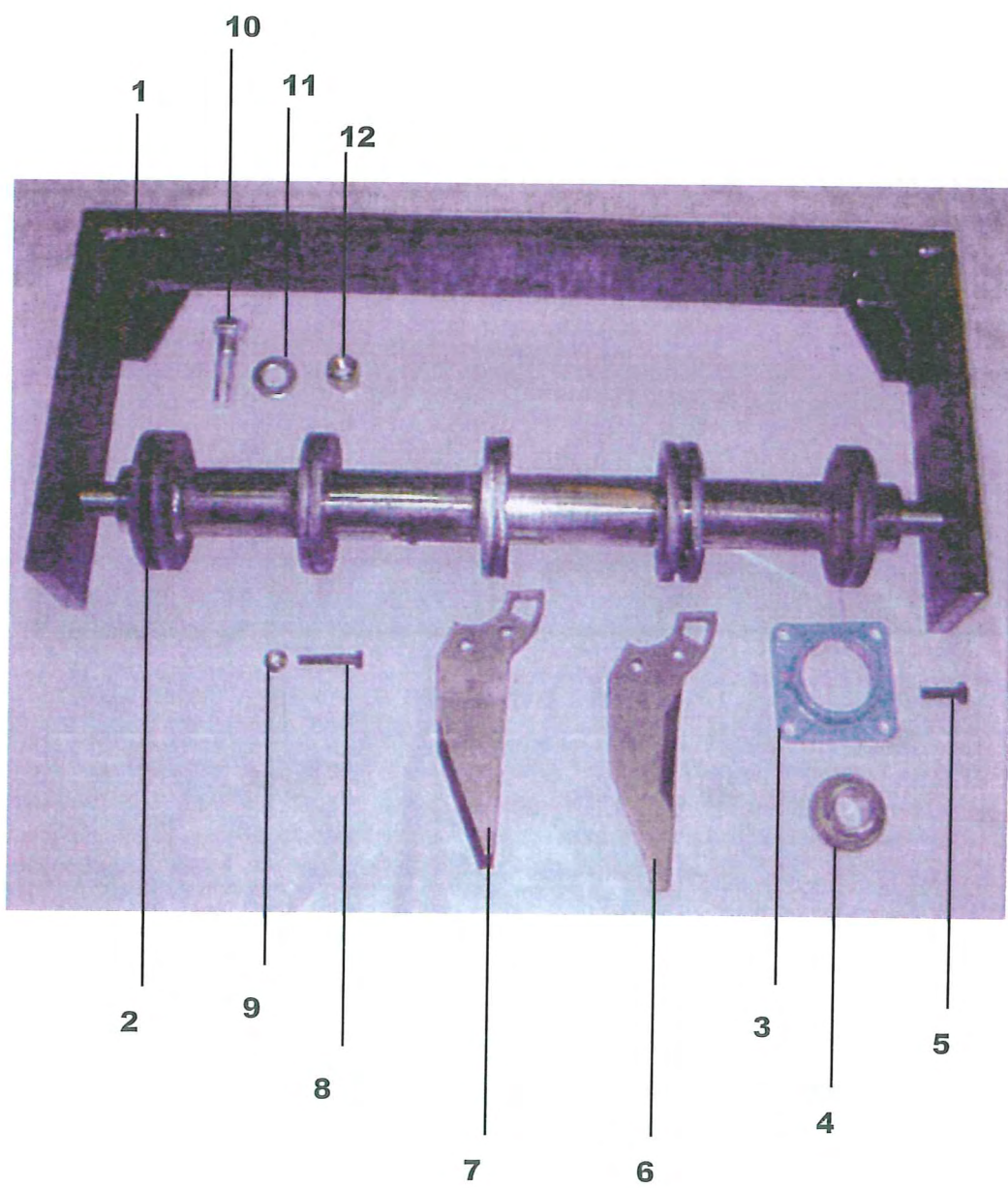
- After initial working period of 2 - 5 hours, re-tighten all tine bolts.

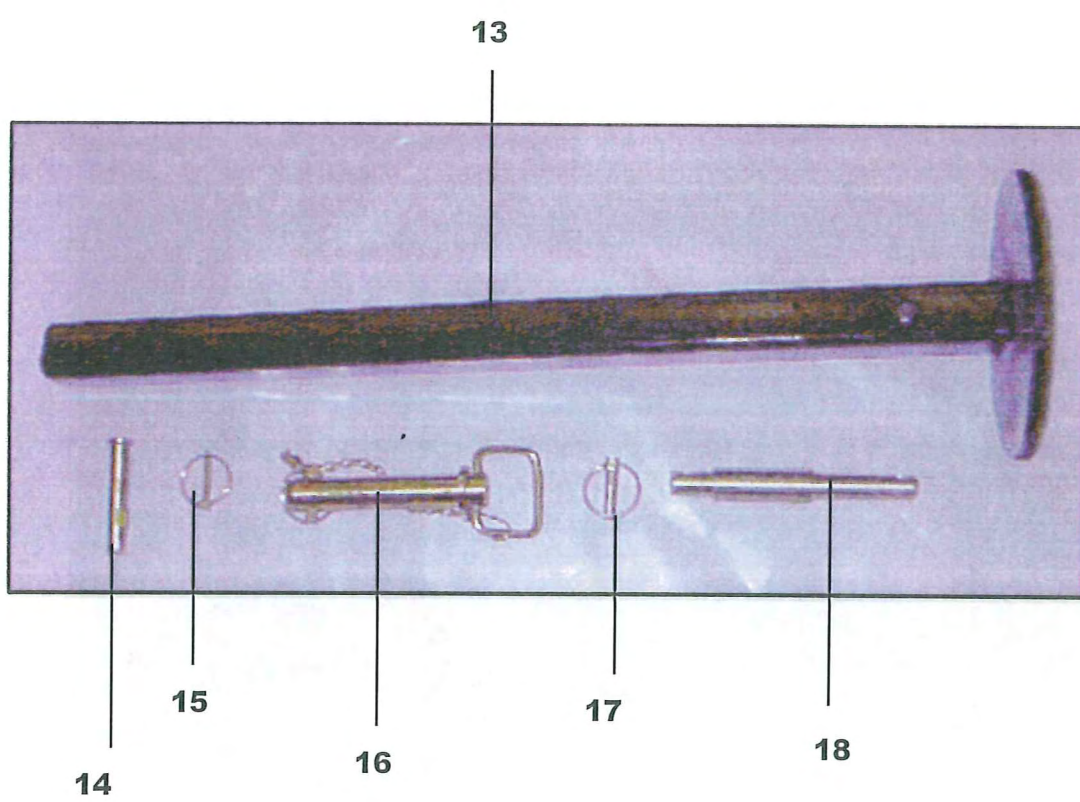
***Note: Use 3/4" or 19mm ring or socket spanner on bolt head to tighten NOT on the nut. These are special flange nuts with a serrated grip to bite into the metal and stop nut turning.***

## SPARE PARTS LISTING - SGH 120-150-180-200

<i>ITEM</i>	<i>DESCRIPTION</i>	<i>SGH PART NO</i>	<i>QTY</i>		
1L	Gang frame - left	GFL20	1		
1R	Gang frame - right	GFR21	1		
2	Rotor shaft - left	GRS5L	1		
2	Rotor shaft - right	GRS5R	1		
4	Bearing	UC208-24TL	4		
5	Housing bolt	4014	16		
6	Tines - left	FTML	15		
7	Tines - right	FTHR	15		
8	Tine bolt	255NC	90		
9	Flange nut	005NC	90		
10	Gang bolt	3525	4		
11	Washer	2500	4		
12	Nut	2501	4		
13	Stand	S5080	4		
14	Pin	B1640	4		
15	Linch pin	B2	4		
16	Cat 2 lower pin	B410	-		
17	Linch pin	B6	2		
18	Cat 1-2 lower pin	B100	2		
3	Bearing housing	F208SG	4		











# FarmTech Machinery

FARMTECH MACHINERY PTY LTD, P.O. BOX 638 WODONGA VIC 3689.

Ph: 02 6024 6800 Fx: 02 6024 6844 [sales@farmtech.com.au](mailto:sales@farmtech.com.au) , [www.farmtech.com.au](http://www.farmtech.com.au)

## INSTALLATION & WARRANTY REGISTRATION FORM

On delivery and installation of the machine, this form **MUST** be completed and signed by the dealer performing the installation and the customer.

MACHINE MAKE/MODEL: \_\_\_\_\_

SN: \_\_\_\_\_

CUSTOMER DETAILS:

NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

DEALER DETAILS:

NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

The Customer and authorised dealer installing person confirm the following (please tick)

- ☐ The machine has been delivered in **good condition and working order**.
- ☐ An **Operating Manual** has been provided to the Customer.
- ☐ The contents of the Operating Manual have been explained to the customer, in particular the safety **precautions** and **safe operating practice**.
- ☐ **Hazards** regarding the machine have been discussed with the Customer.
- ☐ The Customer has been trained in the **safe set-up and adjustment** of the machine.
- ☐ All **machine guards and safety devices** have been identified and their importance discussed with the Customer.
- ☐ All **warning and safety decals** on the machine have been identified and their meaning discussed with the Customer.
- ☐ The Customer has been instructed and understands the **design capabilities, limitations and capacity** of the machine.
- ☐ The Customer has been instructed on the lubrication, daily checks and **maintenance** requirements of the machine.
- ☐ The Customer has been trained in the **safe operation** of all machine controls.
- ☐ The Customer has been trained in the **safe transport** of the machine.
- ☐ The Customer has been trained in the safe attaching **and removal** of the machine from the tractor.
- ☐ The Customer has the dealer **contact details** to obtain any further operating and safety advice.
- ☐ The Customer understands that the fixing of ancillary items or non genuine attachments to the machine or the **modification** of the machine in anyway may render the machine less safe, and that advice of the Dealer should be obtained prior to such changes.
- ☐ The Customer confirms a thorough **review** of the Operating Manual will be undertaken before operating the machine and that the same will be done by any subsequent operator not present at the installation
- ☐ The machine is run up to operating speed and The Customer confirms that **the machine runs smoothly** and **without any vibration**
- ☐ The Customer is confident in operating the machine in a safe and competent manner.

The Installation and Customer Training was carried out on (date) \_\_\_\_\_ / \_\_\_\_\_ / 20\_\_\_\_

DEALER REPRESENTATIVE:

NAME: \_\_\_\_\_

POSITION: \_\_\_\_\_

SIGNATURE: \_\_\_\_\_

CUSTOMER:

NAME: \_\_\_\_\_

POSITION: \_\_\_\_\_

SIGNATURE: \_\_\_\_\_

A copy of this form **MUST** be sent to Farm Tech Machinery within 7 days of machine installation.