

Duo Cubicle Bedding Dispenser Operation Manual



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OPERATION MANUAL

CONTENTS

Section 1	INTRODUCTION
1.1 1.2 1.3 1.4	Foreword Improvements and changes Service parts Machine identification
1.5 1.6	Standard warranty policy Quality of translations
Section 2	SAFETY PROCEDURES
2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9	Accident prevention Safety signs Before starting machine When operating machine Maintenance and servicing Transportation Cleaning and storing Proper use (intended products) No liability for consequential damage
Section 3	SPECIFICATIONS AND DESCRIPTION
3.1 3.2	Description Technical specification

Section 4 <u>PUTTING THE MACHINE TO WORK</u>

4.1	Charging the machine
4.2	Isolating the machine electrics
4.3	Circuit breaker
4.4	Machine familiarization
4.5	Setting the metering plate to suit your product needs
4.6	Setting the conveyor speed to suit your product needs
4.7	Setting the auger speed to suit your product needs
4.8	Lowering and starting the brush
4.9	Loading the machine
4.10	Dispensing the product
4.11	Driving the machine
4.12	Blockage removal

Section 5

MAINTENANCE

5.1	Greasing points
5.2	Conveyor belt tension / alignment
5.3	Auger drive chain tension adjustment
5.4	Agitator drive chain tension adjustment
5.5	Sweeping brush replacement
5.6	Storing the machine
5.7	Service schedule
5.8	Trouble shooting

SECTION 1

INTRODUCTION

1.1 FOREWORD

This manual will assist the operator to set, operate and maintain the AG Duo dispenser to produce a safe and efficient operation of the machine. This manual should be read carefully before putting the machine to work.

1.2 IMPROVEMENTS AND CHANGES

Garnett Farms Engineering Ltd are continually improving their products to meet and exceed the customer's needs and therefore reserve the right to make improvements and changes when practical to do so, without incurring any obligation to make changes and additions to equipment which has been sold previously.

1.3 SERVICE PARTS

Use genuine and guaranteed Garnett Farms Engineering Ltd products on AG Products machinery to ensure maximum life and guaranteed performance. These are available direct from AG Products or through your local AG Products dealer.

When ordering service parts always quote the model of machine and serial number.

1.4 MACHINE IDENTIFICATION

The model and serial number of the dispenser are stamped on a plate located behind the black cover on the rear of the machine.



1.5 STANDARD WARRANTY POLICY

NEW MACHINE WARRANTY

All new machines supplied by Garnett Farms Engineering Ltd are warranted to the original purchaser, under normal use and service, to be free from defects in material and workmanship for a period of 12 months from the date of delivery to the original purchaser.

To qualify for the full benefit of this warranty, the dealer must ensure that the warranty registration details have been returned to Garnett Farms Engineering Ltd within 30 days from the date of delivery. Using the machine implies the knowledge and acceptance of these instructions and the limitations contained here in this manual. Garnett Farms Engineering Ltd reserves the right to suspend the operation of these warranty conditions unless and until the purchaser has paid in full for the goods or parts in question.

LIMITATION AND EXCLUSIONS

Garnett Farms Engineering Ltd and the authorised AG Products dealer shall not be liable to the original purchaser under any circumstance for injuries, death, property damage or damages of any kind whatsoever directly, consequential or contingent to any person or property. This warranty shall not extend or apply to temporary repairs or in respect of loss or any expense incurred for labour, additional machinery, rental or of any other reason or purpose.

Garnett Farms Engineering Ltd will not be liable under this warranty for any repairs carried out without its prior consent to the work being done. Any fault should be reported to your local AG Products dealer or direct to Garnett Farms Engineering Ltd as soon as the fault is discovered. Continued use of the machine could cause further failures for which Garnett Farms Engineering Ltd cannot be held liable and may also have safety implications.

Authorisation must be given by Garnett Farms Engineering Ltd Warranty Manager – no other employee, dealer or other person is authorised to give any warranties on behalf of AG Products. Subject to the conditions and exclusions noted in this limited warranty, Garnett Farms Engineering Ltd shall repair or replace free of charge any warranted parts which in the manufactures opinion show evidence of such defect provided that any such part is returned to AG Products if requested within 30 days of the repair being carried out.

Any parts on which warranty is given become the property of Garnett Farms Engineering Ltd and as previously stated must be returned to AG Products if requested. All warranty claims must be submitted to AG Products by an authorised AG Products dealer within 20 days of the repair being carried out. The submission of a claim form is not a guarantee of payment. And any decision reached by Garnett Farms Engineering Ltd is final.

This limited warranty by Garnett Farms Engineering Ltd does not cover:-

- 1) Damage or depreciation caused by normal wear and tear. Any parts which have been subject to alteration, modification or fitment of non-genuine AG Products parts, wilful or accidental damage, damage caused by foreign objects (e.g., stones, metals and any other materials other than those suitable for the machines intended use).
- 2) Damage or depreciation caused by neglect or failure to carry out proper maintenance as recommended in the operators manual.
- 3) Damage or depreciation caused by abnormal or improper use in accordance with AG Products recommendations and/or as per the operating instructions.
- 4) Environmental damage

TRANSFER OF WARRANTY

Garnett Farms Engineering Ltd may at its sole discretion allow this warranty to be transferred to a new owner for the balance of the warranty period, subject to all of the warranty conditions being met at the original point of sale and up to the date of resale. AG Products will give prior written consent and the new owner must complete an AG Products warranty registration form and return it to Garnett Farms Engineering Ltd within 30 days of purchase date for the remainder of the warranty to be valid.

WARRANTY ON PARTS

Garnett Farm Engineering Ltd warrants that any part or components supplied by AG Products in accordance with this limited warranty are free from defects in material or workmanship from the date of sale to the original purchaser for 6 months. Garnett Farm Engineering Ltd will at its option, either repair or replace the defective part free of charge.

Parts replaced or repaired by Garnett Farm Engineering Ltd under warranty conditions will have the remainder of the machine warranty period applied.

Garnett Farms Engineering Ltd. Cannot be held responsible for any failures or safety implications arising from the use of non-genuine parts. Use of non-genuine parts may seriously affect the machines performance and safety.

1.6 QUALITY OF TRANSLATIONS

Where instructions for use are translated from the original language into others, expert translators or specialists shall be responsible for the translation including checking and proofreading, and:

- Have basic competences in communication, particularly technical communication.
- Are familiar with the subject area.
- Are fluent in the original and target languages, preferably native speakers in the target language.

Colloquial expressions and untypical regional variations of names and product features should be avoided.

The translated instructions for use should be edited by qualified persons specializing in writing and translating for the target groups.

SECTION 2

SAFETY PROCEDURES

2.1 ACCIDENT PREVENTION

The following safety instructions are applicable for all chapters of this manual.

Accident prevention programs can only prevent accidents with the co-operation of the persons responsible for the operation of the equipment.

For safety of yourself and others, operate equipment with care and do not take unnecessary risks, which could cause an accident.

Please read all safety instructions contained in this operators manual with the utmost care and also observe all safety signs attached to the AG Dispenser. Please ensure these instructions are made available and are understood by all other uses of the AG Dispenser. You are advised to refrain from any working methods which may be hazardous.

All relevant accident prevention regulations governing the operation of agricultural machinery, as well as other generally acknowledged health and safety regulations must be strictly observed.

CAUTION



This symbol will appear throughout this manual whenever your safety, the safety of others or the machinery is involved.

2.2 SAFETY SIGNS

The following signs appear on the machine and are for your safety and the safety of other people. Ensure that you identify each symbol and understand its warning.



These safety signs must be kept in a legible condition and must be replaced if damaged or missing.

Standard safety signs used



Switch off electrics and remove isolator switch



Keep a safe distance from the machine to avoid injury to body and eyes



Don't reach into the hopper / gain access into the hopper due to the risk of rotating parts



Risk of electric shock



Read operators manual before operating the machine



Use of a dust mask is advised in dusty conditions

2.3 ACCIDENT PREVENTION BEFORE STARTING THE MACHINE

If moving the AG dispenser by overhead lifting use the designated lifting points, see section 4 (transportation). Ensure that the slings / chains are rated accordingly, and that the angles of the slings / chains are set in accordance to lifting regulations. Ensure the lifting device has enough capacity to lift the AG dispenser.

Ensure bystanders are at a safe distance when moving the AG dispenser by overhead slinging.

The AG dispenser should only be used if all safety devices, e.g. detachable guards, are fitted securely and in proper working order.

Check there are no foreign objects interfering with the AG dispenser.

Ensure that no person is working on, inside or in the local area of the AG dispenser, at any time during all stages of use.

Always perform a walk round inspection before starting the machine.

2.4 ACCIDENT PREVENTION WHEN OPERATING THE AG DISPENSER

The AG dispenser must not be put into operation until the end user has read and understood the operators manual. If in any doubt contact your dealer or Garnett Farms Engineering Ltd employees.

One person should use the AG dispenser only. When the operator identifies someone approaching or is to close for their safety, the operator should stop operating until the person is clear before starting again.

Bystanders need to keep a safe distance from the AG dispenser while it is being operated. Warn bystanders and give them time to move before starting.

In the event of a malfunction, immediately stop the AG dispenser and secure in a stationary position. All malfunctions must be rectified immediately.

Do not work around the AG dispenser in loose clothing that might get caught up in moving parts. Do not go under the AG dispenser unless it is securely blocked and secure.

Always replace all guards after making any adjustments to the AG dispenser, replace any missing or damaged guards immediately.

Never approach the AG dispenser whilst the machine is being operated.

Keep hands and feet away from moving parts i.e. conveyor belt / auger / top agitator/brush. Do not reach into the bin due to entanglement of the auger and agitator.

Inspect bedding material before loading to ensure it does not contain any foreign objects.

If manually loading the bin, follow manual handling recommendations.

Certain types of bedding product could demand the use of PPE due to its fine particles or the material is a skin irritant. In this case wear gloves, goggles, face mask and overalls.

Ensure your driving line is free from obstruction and bystanders.

2.5 ACCIDENT PREVENTION WHEN SERVICING AND ADJUSTING THE MACHINE

The AG dispenser must only be serviced / maintained by a competent person who understands the workings of the machine and the risks involved in carrying out this type of work.

Ensure the AG dispenser is on the ground or if in an elevated position, that it is securely supported.

Isolate the machine and remove the switch knob before performing any maintenance or service work.

All defects which might affect the safe operation of the AG dispenser must be immediately rectified.

OEM replacement parts and accessories from AG Products have been specially designed and tested for use with the AG dispenser. The use of none genuine OEM parts which have not been tested by AG products may under certain circumstances have a negative influence on the machine and may therefore adversely affect its safe and reliable operation and the safety of the operator or bystanders.

AG Products cannot therefore be held liable for damage or injury caused by the use of none genuine OEM replacement parts or accessories.

If running the machine during maintenance or adjustment, keep a safe distance away from moving parts. Always stop the machine before making any further adjustments and replace all guards once your work is complete.

2.6 TRANSPORTATION



NEVER TOW THE AG DUO DISPENSER

To prevent damage to the AG dispenser the machine should only be moved by one of the following methods:

- 1. using a trailer with appropriate ramps to allow the machine to be driven onto it. Once on the trailer the machine should be secured by using the securing points on the four corners of the machine chassis.
- 2. using overhead lifting by slinging the AG dispenser with the four dedicated lifting points.



4 X M12 lifting eyes with the correct SWL will be required for overhead lifting. These are to be screwed into the top of the hopper once the blanking bolts have been removed (blanking bolts illustrated on the picture above). Please ensure any lifting slings or chains have adequate lifting capacity and have been tested before lifting.



2.7 ACCIDENT PREVENTION WHEN CLEANING AND STORING MACHINE

Do not run the machine while cleaning

If cleaning the machine with a steam cleaner or pressure washer, follow recommended precautions given by the washing equipment manufacturer.

Wear appropriate PPE (Personal Protective Equipment).

When storing the machine ensure the bin and conveyor are empty of product.

2.8 PROPER USE

Always make sure the AG dispenser is in good working condition and that it is used properly for its intended purpose and entirely in accordance with the instructions given in this manual. Any defects which might affect the safe operation of the AG dispenser must be rectified immediately.

The AG dispenser is intended for use for transporting and distributing bedding material into cattle cubicles. Any uses other than that intended such as transportation of none bedding products, will automatically exempt Garnett Farms Engineering Ltd or the supplier from its liability in respect of ensuing damage. Such cases of improper use will therefore be entirely at the users own risk.

The AG dispenser is manufactured in accordance with recognised safety requirements. Nevertheless the use of the AG dispenser does not preclude the risk of injury to the user or third parties and or the risk of damage to the AG dispenser itself or to other materials or items of equipment.

Improper use also comprises failure to observe the instructions as given in this operators manual and the recommended maintenance and service requirements.

2.9 NO LIABILITY FOR CONSEQUENTIAL DAMAGE

It is the responsibility of the owner / operators to ensure that foreign objects, e.g. stones, metal objects etc. are not allowed to enter the AG dispenser. Failure to observe this may result in damage to the machine and / or injury to the operator or others.

Any claims for damages not directly incurred by the AG dispenser cannot be accepted. By the same token, Garnett Farms Engineering Ltd cannot be held liable for any consequential damage resulting from incorrect use of the AG dispenser.

SECTION 3

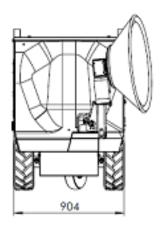
SPECIFICATIONS AND DESCRIPTION

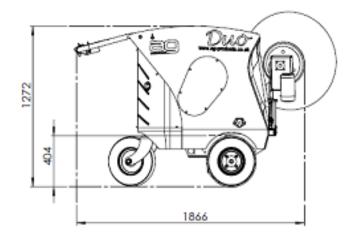
3.1 DESCRIPTION

The AG Duo is a fully electric machine consisting of a driven axle for ease movement, a bin which holds the bedding product, a brush for sweeping cubicles, an auger and agitator which move the product in the bin and a conveyor to dispense the product.

3.2 TECHNICAL SPECIFICATION

Size of basic machine is as follows (all dimensions are approximate).





SECTION 4

PUTTING THE MACHINE TO WORK

4.1 CHARGING THE MACHINE PRIOR TO USE.



∆Please read the charger operators manual.

It is important that the machine is only charged with the charger supplied with the machine, please read the enclosed operating instructions included in the charger box before use.



When the machine is fully charged the screen on the Duo dash will read 100%, the machine is now ready to use.



4.2 ISOLATING THE MACHINE ELECTRICS

The isolator switch is located on the right-hand side to the rear of the machine. Once turned off the red switch knob can be removed.



4.3 CIRCUIT BREAKER

The circuit breaker is located behind the rear black cover and is housed inside the speed changing box. Access to this box is gained by removing the four corner screws in the box lid.



If you find that the circuit breaker has tripped the breaker can be set by pushing the brown lever back into position as shown in the following pictures. If for any reason the breaker trips out straight after resetting, please isolate the machine and contact your local dealer or AG Products.



Circuit breaker in the closed ON position.



Circuit breaker in the open OFF position.

4.4 Machine Familiarization

Once the machine is fully charged and ready for use it is advised that all operations are checked and found to be in full working condition.

- 1. Ensure there are no bystanders around the AG Duo.
- 2. Check there are no foreign objects in the hopper.
- 3. Check all operations and familiarize yourself with the switch position, actions and forward and reverse drive speeds.
- 4. It is advisable to complete several dry runs to get used to the switches and speed of the machine.



4.5 SETTING THE METERING PLATE TO SUIT YOUR BEDDING PRODUCT AND NEEDS

Before using the machine with bedding products the metering plate must be adjusted to provide a suitable gap in order to obtain the desired bedding flow rate.



The size of the gap will determine the rate of flow at which the bedding product flows onto the conveyor belt and will vary in size between all bedding products and your needs. The ideal gap will be found through fine tuning.

Follow the procedure below,



Only adjust the metering plate by means of moving the adjusting handle from left to right.

Moving the adjusting lever to the right will reduce the hole size reducing product flow.

Moving the lever to the left will increase the hole size increasing product flow.

4.6 SETTING THE CONVEYOR SPEED



The speed control box is located behind the rear moulded black cover, it is recommended that this cover is left off until after you are happy with the speed and quantity of bedding being dispensed.

The potentiometer for changing the conveyor speed has buttons to press which will alter the speed of the conveyor belt which in turn will increase or decrease the distance of the product being dispensed (max speed 9.9, min speed 0.1).

4.7 SETTING THE AUGER SPEED

The potentiometer for changing the conveyor speed has buttons to press which will alter the speed of the auger which in turn will increase or decrease the amount of product being dispensed (max speed 9.9, min speed 0.1).

4.8 STARTING AND LOWERING THE SWEEPING BRUSH



Please ensure there is sufficient space to allow arm movement.



Please ensure there are no bystanders present when turning on the brush.

- 1.Turn on the brush.
- 2. Lower the brush arm all the way down to its stop position.

To get maximum efficiency from the sweeping brush it is advised that only the front of the brush does the sweeping. This can be achieved by adjusting the brush head in one of two ways.



Adjusting position 1 will tilt the brush head forwards and backwards along the length of the brush.

Adjusting position 2 will rotate the brush forwards and backwards.

4.9 LOADING THE MACHINE



Please use correct manual handling techniques when loading this machine.

4.10 DISPENSING THE PRODUCT

Discharge rate,

The discharge rate is governed by;

- 1. The size of hole in the adjusting slide.
- 2. The speed of the auger.
- 3. The speed of the conveyor.

Spread pattern,

The distance the bedding product can be thrown is dependent on;

- 1. The speed at which the conveyor runs.
- 2. The amount of product falling onto the conveyor belt.

The adjustment of all or some of the above factors will result in the AG Duo performing to its best ability with all bedding product types.

4.11 DRIVING THE MACHINE, FORWARDS AND BACKWARDS MOVEMENT



NEVER TOW THE AG DUO DISPENSER

The AG Duo has an electric all wheel drive axle for ease of movement. The drive is engaged by moving the direction switch located on the dash into the direction required, then once this is done drive is engaged by the use of a thumb throttle. For safe operation reverse speed is slower than forward speed. Always leave the machine in its neutral position when not in use.



4.12 BLOCKAGE REMOVAL



Always make sure the AG Duo is stopped on flat ground, the isolator is turned off and the switch knob is removed.



Wear appropriate PPE (Personal Protective Equipment) when carrying out all maintenance or service work.

If during the dispensing of the bedding product the auger, conveyor or spinners stall follow the procedure below,

- 1. Bring the Duo, to a stop and turn off all services.
- 2. Turn the machine off at the isolator and remove the red knob.
- 3. Look into the bin and investigate if there are any foreign objects that can be seen and if so easily removed.
- 4. Look along the conveyor bed to investigate if there are any foreign objects that can be easily removed.
- 5. The use of a pry bar is recommended to remove any blockage to prevent potential for trapping and cuts and bruises due to manual intervention.
- 6. Once any foreign objects have been removed turn on the machine and try dispensing product again.
- 7. If the AG Duo is still blocked stop the machine and phone your local dealer or Garnett Farms Engineering Ltd for further advice.

SECTION 5

MAINTENANCE

Refer to section 2.1 for accident prevention. Always make sure the AG Duo is stopped on flat ground, the isolator is turned off and the switch knob is removed.



Wear appropriate PPE (Personal Protective Equipment) when carrying out all maintenance or service work.

The AG Duo is designed for the optimum performance with minimum requirement for maintenance.

5.1 GREASING POINTS

The AG Duo has been built with sealed for life bearings for optimum performance and minimum maintenance. The AG Duo has only six grease points which require greasing approximately every 50 hours.

The grease points are to be found as pictured below,





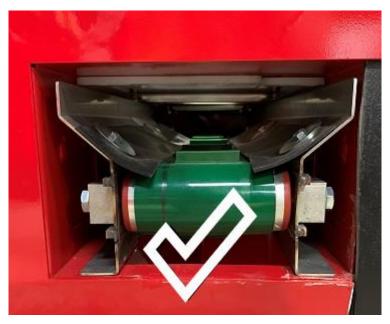




5.2 CONVEYOR BELT TENSION / ALIGNMENT AND ADJUSTMENT

Refer to section 2 for accident prevention. Always make sure the AG Duo is stopped on flat ground, the isolator is turned off and the switch knob is removed.

For optimum performance it is necessary to run the conveyor belt centrally on the conveyor rollers. If the conveyor belt is allowed to wander off central it may cause unnecessary drag and slow the belt down causing poor performance.







Conveyor belt adjusters can be found on both sides of the conveyor bed and access is gained to these by firstly removing the outer black panels and then two inspection plates located on either side of the conveyor tunnel.

If the conveyor belt is found to be running out of alignment the head roller will need adjusting to move the conveyor belt either to the left or to the right of the tail roller.

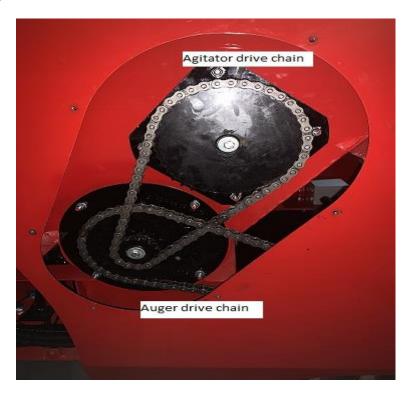
Tensioning the adjuster on the side the belt is running towards will move the belt in the opposite direction. Once this has been done is advisable to turn the conveyor belt by hand to check the conveyor belt stays central.

Be cautious not to overtighten the conveyor belt as this may cause premature wear on other moving parts.

If I doubt phone your local dealer or AG Products for advice.

5.3 AUGER CHAIN DRIVE TENSION ADJUSTMENT

Refer to section 2 for accident prevention. Always make sure the AG Duo is stopped on flat ground, the isolator is turned off and the switch knob is removed.





The auger drive motor is located behind the front black cover. Adjustment to the chain tension is made by slackening the two lock nuts in the motor mount bracket (as shown above) and then sliding the motor into its new position before then locking it back into place.

5.4 AGITATOR CHAIN DRIVE TENSION ADJUSTMENT

Refer to section 2.1 for accident prevention. Always make sure the AG Duo is stopped on flat ground, the isolator is turned off and the switch knob is removed.



The agitator drive chain can be tensioned by slackening off the four mounting plate retaining bolts as illustrated. The mounting plate has four slotted holes which allow the plate to move therefore allowing chain tension to be set.

5.5 BRUSH HEAD REPLACEMENT

Refer to section 2.1 for accident prevention. Always make sure the AG Duo is stopped on flat ground, the isolator is turned off and the switch knob is removed.



The sweeping brush head is easily removed, remove the three M10 nuts from the brush mounting bolts and the brush head should be easily removed.

Only use genuine AG Parts when replacing the brush head as the motor and gearbox are configured to suit the brush dimensions.

5.6 STORING THE MACHINE



Refer to section 2.1 for accident prevention.



Wear appropriate PPE (Personal Protective Equipment) when carrying out all maintenance or service work.

To ensure that the AG Duo gives years of trouble-free operation it is important that when the machine is not in use for a long period of time that it is cleaned and stored correctly.

- Clean the machine thoroughly.
- Apply a rust inhibitor to the bin surface.
- Grease all grease points.
- Store inside or under cover.
- Fully charge battery.
- Turn off isolator switch.

5.7 SERVICE SCHEDULE

The AG Dispenser is designed for the optimum performance with minimum requirement for maintenance however it is recommended that in high usage environments a thorough inspection is carried out every six months.

It is recommended that the following checks are carried out,

- Check condition of main bin.
- Signs and safety stickers in place.
- Check security of auger.
- Check security of auger motor and gearbox.
- Check auger bearing for excessive movement.
- Check auger drive chain tension.
- Check auger fighting for excessive wear.
- Check security of agitator.
- Check agitator bearing for excessive movement.
- Check agitator drive chain tension.
- Check condition of conveyor belt.
- Check condition and adjustment of conveyor side skirts.
- Check condition and security of all conveyor rollers.
- Check condition of head roller bearings.
- Check security of conveyor motor.
- Check conveyor drive belt condition / tension.

5.8 TROUBLE SHOOTING

The problems, possible causes and remedies listed below are only a guide and guidance should be sought from your local dealer or AG Products if you are unsure at any point.

Problem	Possible cause	Remedy
Machine has no electrical power	Isolator turned off	Turn on at isolator
	Battery flat	Charge battery. Check charger is working correctly (section 4.1)
	Circuit breaker open	Reset circuit breaker (section 4.3)
Insufficient product being dispensed	Gap in metering plate too small for product to pass through.	Open the metering plate to suit your bedding (section 4.3).
	Auger not turning fast enough	Increase auger speed (section 4.5)
	Conveyor not turning fast enough	Increase conveyor speed (section 4.4)
Too much bedding being dispensed	Gap in metering plate too big	Close the metering plate to limit product flow (section 4.3)
	Auger turning too fast	Reduce the auger speed (section 4.5)
	Conveyor running too fast	Reduce the conveyor speed (section 4.4)
No product being dispensed	Blockage	Check and remove blockage (section 4.10)
	Auger tripped (Electronic trip, no manual reset)	Reduce auger speed (section 4.5)
	Conveyor tripped (Electronic trip, no manual reset)	Increase conveyor speed (section 4.4)

WARRANTY REISTRATION FORM

Garnett Farms Engineering Ltd Hales Pasture Farm London Road Allostock Nr Knutsford Cheshire WA16 9LT



Tel: 01565 722922

service@ag-products.co.uk

Date of Purchase	
Machine Model	
Machine Serial Number	
Customer Name	
Trading Name	
Address	
Tel:	
Email:	
Dealers Name	
Address	
Tel:	
Email:	

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