AITCHISON SEEDMATIC 40/4128 Series DRILLS



REESE ENGINEERING LTD 41 KELVIN GROVE ROAD - PO BOX 5056 PALMERSTON NORTH, NEW ZEALAND PHONE: +64 6 357 9323 FAX: +64 6 354 3155 www.reeseagri.com

<u>Contents</u>

| INTRODUCTION | 3 |
|--|----|
| TO THE OWNER AND OPERATOR | 5 |
| TECHINCAL SPECIFICATIONS | 6 |
| SAFETY FIRST | |
| GENERAL OPERATION IN THE FIELD | 10 |
| PASTURELAND FARMING WITH SEEDMATIC | 10 |
| MANAGEMENT CONSIDERATIONS | |
| TECNIQUES AND TIMING FOR PASTURE RENOVATION | 11 |
| SIMPLE RULES TO FOLLOW FOR SUCCESSFUL PASTURE RENOVATION | 12 |
| MICRO INSECTICIDE GRANULES IN PASTURES | 13 |
| SOWING IN CULTIVATED SOILS | |
| SETTING UP THE SEEDMATIC FOR USE | 15 |
| SET THE DEPTH WHEELS | 18 |
| DISC COULTER KITSET | 19 |
| TINE PLACEMENT | |
| CALIBRATING THE DRILL TO CHECK THE SOWING RATE | |
| LAYMANS GUIDE TO SEED VARIANCE | |
| DIFFICULT SEEDS TO SOW | 23 |
| OAT WIPER AND BEAN SPACER | 24 |
| RODENT DANGER | |
| REMOVAL OF SEED FROM HOPPER | |
| SPECIAL PURPOSE SEEDING | |
| CHANGING THE GEARBOX RATIO: Range 1 – Range 2 | |
| FERTILISER SLIDE REMOVAL | |
| AUGER BAFFLE REMOVED | |
| REAR INSPECTION PANELS REMOVED | |
| GENERAL MAINTENANCE | 30 |
| LUBRICATION | 30 |
| CARE OF THE SPONGE PADS | |
| SEASONAL STORAGE | 31 |
| TINE CLAMPS | |
| PARTS BREAKDOWN | 2 |

Introduction

Dear Valued Owner,

Congratulations, you have just made an excellent investment.

Your new Aitchison drill has been designed and engineered to give years of dependable service. Every consideration has been taken to incorporate the latest technology, thus ensuring optimum seeding is achieved. Aitchison Drills provide the optimum agronomic environment, ensuring proper seedling germination, leading to superior crops and thus greater revenue earning potential.

It has often been said: õwhen all else fails-read the operators manualö and to ensure you get the best from your new Aitchison drill it is very important that you thoroughly read through the entire contents of the manual. Please also pay attention to the maintenance recommendations, understand the calibration system and consider the design features and their specific functionality.

Your local dealer carries an extensive range of genuine Aitchison spare parts and consumables that also have been engineered to provide long service and life. It is important that only genuine parts are used on your drill.

Thank you for making your investment in our expertise.

Yours Sincerely,

Ross Simpson

Director Reese Agri

THE OPERATION AND ADJUSTMENT OF THE REESE MACHINE REQUIRES A COMPLETE KNOWLEDGE OF THE CONTENTS OF THIS HANDBOOK. TO AVOID PERSONAL INJURY PLEASE ENSURE THAT ALL PERSONNEL ARE THOROUGHLY CONVERSANT WITH ALL DETAILS BEFORE COMMENCEMENT OF OPERATION OR MAINTENANCE.

WARRANTY

COMPLETE AND RETURN WARRANTY REGISTRATION TO ENSURE VALIDATION. IN THE USA RETURN TO: REESE EQUIPMENT INC, PO BOX 20188, LOUISVILLE, KY 40220-0188. IN AUSTRALIA AND NZ RETURN TO: REESE ENGINEERING LTD, PO BOX 5056, PALMERSTON NORTH, NEW ZEALAND

REESE warrants that the Machine delivered shall conform to the specifications set out in this Handbook.

REESE makes no warranty of saleability or fitness for a particular use, nor is there any other express or implied warranty.

Subject to such other conditions, warranties, and/or undertakings which may apply from time to time under any applicable law, REESE warrants with respect to each new AITCHISON Machine sold by its accredited agents, that for a period of twelve months from the dates of original retail sale, REESE will repair or replace free of charge any part found to be defective in factory materials or workmanship under normal use and operation within the United States of America, Canada, Australia and New Zealand provided that;

1. The Machine

- (a) has been properly assembled and adjusted
- (b) has been properly used and operated within the capacity and operating limitations specified by the manufacturer thereof, and
- (c) has been properly maintained and cared for.

2. This Warranty applies to direct purchase from an authorized AITCHISON dealer. If any defect or fault shall arise such purchaser must return the defective work or Machine to an authorized AITCHISON Dealer within ten working days of such defect or fault arising.

3. In the event of the purchaser attempting to repair or replace the work or product without prior written consent of an authorized AITCHISON Distributor this guarantee shall become void. REESE may replace or repair any damaged product or work at its discretion.

4. In respect of such Machine this warranty does not apply to:

- (d) misuses or carelessness in handling,
- (e) Noncompliance to REESE operating and maintenance instruction,
- (f) Unauthorized repairs or alterations,
- (g) Consequential damage resulting from misuse or initials faults,
- (h) Parts subjected to ware or damage as a result of normal operation i.e.
 - i. Sponge pads and discs
 - ii. Tines and boots
 - iii. Discs
 - iv. Tyres
 - v. Hydraulic components

5. Any disputes in relation to this contract or product shall be governed by New Zealand law and shall be determined in New Zealand court.

TO THE OWNER AND OPERATOR

Your Aitchison Drill was carefully designed and manufactured to give you years of dependable service. To keep it running efficiently, read and follow the instructions in this operator s manual. Any questions you may have that are not covered in this manual should be referred to your dealer:

| Dealers Name: | | |
|-------------------|----------------|--|
| Address: | | |
| | Private: | |
| Date of Purchase: | | |
| Model: | Serial Number: | |

The warranty card on your Grassfarmer Drill is included with this manual. Please ensure that the registration card is correctly filled in.

The owner must ensure the dealer, upon delivery of the machine, has completed the **WARRANTY REGISTRATION CARD**. This must be signed by the owner and returned to the factory promptly. <u>Failure to carry out this function could nullify warranty claim opportunities against the factory in the future</u>. Warranty claims will only be accepted for registered products.

When ordering spare parts, quote the model and serial number of the drill and use the Aitchison part number given in the parts section. Reference to the right hand and left hand is taken from behind in the direction of travel.

TECHNICAL SPECIFICATIONS

| Model | 4028CT | 4128CT |
|---------------------|------------|------------|
| | 3.925m | 3.925m |
| Transport Width | 12.87ft | 12.87ft |
| | 3.500m | 3.500m |
| Sowing Width | 11.5ft | 11.5ft |
| | 1.750m | 1.750m |
| Height | 5.7ft | 5.7ft |
| | 1985kg | 2115kg |
| Weight Empty | 4376lb | 4663lb |
| | 4.375m | 4.375m |
| Length | 14.3ft | 14.3ft |
| | 1000lt | 665lt |
| Seed Capacity | 28.4bu | 18.8bu |
| | N/A | 690lt |
| Fertiliser Capacity | | 19.5bu |
| Number of Coulters | 28 Rows @ | 28Rows @ |
| & row spacings | 125mm / 5ö | 125mm / 5ö |

Optional Accessories:

| Bin level indictor; | A3083 |
|----------------------------|-------|
| Hydraulic Kit for Drawbar; | A3129 |

Operating equipment safely requires the full attention of the operator. Do not wear radio headphones while operating machine.

7

SAFETY FIRST

Keep all covers in place when using the drill. Stop the drill before making adjustments. Lower the drill to the ground or put on props when working around the machine. Tighten all nuts and bolts after initial use.

FOLLOW SAFETY INSTRUCTIONS

Carefully read all safety messages in this manual and on your machine safety signs. Replace missing or damaged safety signs, these can be ordered from your local Aitchison dealer.

Learn how to operate the machine and how to use controls properly. Do not let anyone operate it without instruction.

Keep your machine in proper working condition. Unauthorized modifications to the machine may impair the function and/or safety and affect machine life.

If you do not understand any part of this manual and need assistance, contact your Aitchisonøs dealer.

OPERATE YOUR MACHINE SAFELY

Be careful when operating machine to avoid injury.

Serious injury or death can result from contact with electric lines. Use care when moving or operating the machine near electric lines to avoid contact.

Be careful when operating on hillsides, tractor can tip sideways if it strikes a hole. ditch or other irregularity.

Permit only one person, the operator, on tractor platform while tractor and planter are in operation. Keep riders off. They are subject to injury such as being struck by foreign object and being thrown off the machine. They also obstruct the operators view.

WEAR PROTECTIVE GEAR

Wear close fitting clothes and safety equipment appropriate to the job.

Wear suitable hearing protective device as prolonged exposure to loud noise can cause impairment or loss of hearing.

Wear safety gloves when working with discs as they can have sharp edges.







BE SAFE WITH CHEMICALS

Direct exposure to agricultural and hazardous chemicals can cause serious injury. Potentially hazardous chemicals used with Aitchison equipment include such items as lubricants, coolants, fertilizer, paint and adhesives. If in doubt, contact your local Aitchison dealer for information about chemical safety and first aid procedures.



Keep a fire extinguisher and first aid kit handy

When disposing of chemicals, make sure hoppers are properly washed to get rid of any chemical residue and that any chemicals are disposed of in an approved manner. Follow instructions of chemical manufacturers for disposal methods.

USE SAFETY LIGHT AND DEVICES

Slow moving tractors and equipment can create a hazard when driven on public roads. They are difficult to see, especially at night. This could lead to personal injury or death if a collision with a vehicle occurs.



Whenever driving on public roads, use flashing warning lights. Provide extra lighting at night on machine and tractor. An implement safety lighting kit is available from Aitchison Industries.

TRANSPORT SAFELY

Do not exceed transport speed for machine; see your local Aitchison dealer. Never transport at any speed which does not permit adequate control of steering and stopping.

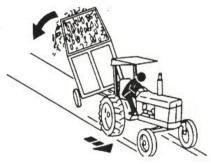
Reduce speed over rough ground

For safe transport, tractor must weigh more than machine.

REDUCE SPEED WHEN TOWING LOADS

Braking to stop towed loads from transport speeds can cause the towed load to swerve and upset. Reduce speed if towed load weighs more than the tractor and is not equipped with brakes.

Use additional caution when towing loads under adverse surface conditions, when turning and on road marking lines.



PRACTICE SAFE MAINTENANCE

Understand service procedure before doing work. Keep area clean and dry.

Never lubricate, service or adjust machine while it is moving. Keep hands, feet and clothing from power driven parts. Disengage all power and operate controls to relieve pressure. Lower equipment to the ground. Allow machine to cool.

Securely support any machine elements that must be raised for service work.

Keep all parts in good condition and properly installed. Fix damage immediately. Replace worn or broken parts. Remove any build up of grease, oil, or debris.

Remove paint before welding or heating. Avoid potentially toxic fumes and dust when sanding, repainting or welding. Do all work outside in a well-ventilated area. Dispose of paint and solvent properly.



Avoid heating near pressurized fluid lines or other flammable materials. Pressurized lines can be accidentally cut when heat goes beyond the immediate flame, which could result in severe burns to yourself and bystanders.

Avoid high-pressure fluids. Escaping fluid under pressure can cause injury. Relieve pressure before disconnecting hydraulic or other lines.

DISPOSE OF WASTE PROPERLY

Improper disposing of waste can threaten the environment and ecology. Use leak-proof equipment when draining fluids. Do not use food or beverage containers that may mislead someone into drinking from them.



Do not pour waste onto the ground, down a drain, or into any water source. Use the manufacturers directions on the correct way to recycle or dispose of waste.

GENERAL OPERATION IN THE FIELD

When the drill is in work in the field, adjust the top link to make the frame level and the sway chains to give 75-100mm (3-4ö) lateral movement. The tractor hydraulics should be set to allow the drill to float over the terrain unimpeded by the movement of the tractor. Adjust the depth wheels evenly on both sides to give the required opener penetration. In extremely hard conditions it is permissible to weigh the front of the drill to aid penetration.

The drill should always be moving forward when lowered or raised from work. Avoid stopping and never reverse with drill in work. These precautions will avoid blocking outlets; however make periodic checks for blockages while drilling.

The speed of travel is governed by the conditions e.g. if the ground is rough the drill may tend to bounce which would necessitate a lower speed. In optimum conditions 8 km/h (5 mph) may be maintained.

Always lift the drill out of the ground before turning sharp corners as this will protect the tines and openers and stop the turf from ripping.

Under no circumstances should the tractor wheels be allowed to slip excessively as this will break the turf and the following tines will tear up the ground. If slippage is a problem, use a tractor with more traction or wait for the ground to be in better condition. Towing chains or bar harrows behind the drill is very beneficial as this will crumble the groove and help to cover the seed.

PASTURELAND FARMING WITH SEEDMATIC

Continuous reaping of grasses either by machine or animal will eventually lead to their degeneration. Desired species of grasses and legumes will weaken and their ability to survive adverse climatic conditions will be diminished. Undesirable species of grasses and weeds will eventually tend to dominate, or pasture may simply thin out with minimal plant populations. Of course conditions that cause pasture degenerations vary from location to location, and from country to country, but one can assume that every pasture can be improved no matter where its location.

MANAGEMENT CONSIDERATIONS

In describing the technique for sowing seeds into uncultivated soils, we should clarify the terminology. It is most common to refer to CONSERVATION TILLAGE (or CT) but it may be called SOD-SEEDING in Australia, or DIRECT DRILLING in UK or even NO-TILL SEEDING in North America. Wherever it is practical, successful conservation tillage requires well considered, and thorough preparation, integrated with a whole farm management program.

The cropping rotation, optimum sowing dates and grazing fertilization program will depend on the seasonal vegetation or weed spectrum, paddock history, soil type, fertility and drainage, and many other factors.

Here is a checklist that should be followed for any CT program (courtesy of Monsanto NZ Ltd):

- 1. Check that the soil pH is around 6.0.
- 2. Check soil fertility levels for fertiliser requirement.
- 3. Ensure your spray boom has a marking system and is fully operational.
- 4. Establish optimum time for planting.
- 5. Check and control weeds present, before and during crop establishment.
- 6. Check and control insect and slug infestation before and during plant establishment.
- 7. Ensure soil conditions are suitable for drilling.
- 8. Inspect the crop regularly after planting.

Experience has shown that farmers new to CT often have crop failures on the first occasion, but as their skills and understanding of the technique improve, so do their crop results.

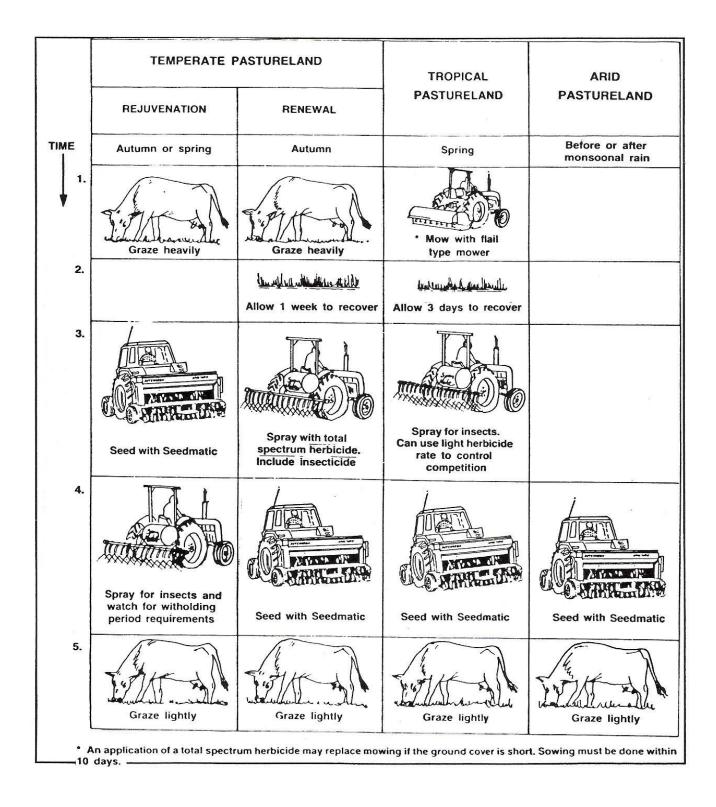
TECHNIQUES AND TIMING FOR PASTURE RENOVATION

There are two basic techniques for pasture renovation, i.e. rejuvenation and renewal. Rejuvenation is the most efficient technique and involves sowing the seeds of new and virile pasture grasses and legumes direct into existing pasture and have them gradually take over the old strain, without causing loss of production due to cultivation. This technique is known as *stitching inø* Renewal involves a total herbage control system, i.e. spray off old pasture with a wide spectrum herbicide before drilling.

Local knowledge is invaluable when determining which techniques to use and when to use them. The best time for pasture renovation will vary by region, and is largely governed by the temperature and weather that follow. In temperate climates with mild winters the autumn is best and tropical climates the spring is the best time when the tropical grasses have not recovered from their winter dormancy. In arid climates the time is directly before or after summer rains.

The basic requirement for seed germination is a warm moist seed bed. The aim should be to sow the seed at a time when there is sufficient moisture for quick germination, and little likelihood for later drought. The Aitchison opener/coulter however will promote germination in much drier soils than any other known coulter when used correctly.

SIMPLE RULES TO FOLLOW FOR SUCCESSFUL PASTURE RENOVATION



MICRO INSECTICIDE GRANULES IN PASTURES

In New Zealand where grass grub is a problem, excellent control has been attained with the use of Gesapon, Dasanit, Dysiston, Mocap, and Lindane in control of this pasture destroyer. Normal rates applied on the pasture surface can be as high as 30 kg/ha (26 lb/acre) but when sown in the soil and hence away from neutralizing effect sunlight, rates as low as four and five kg/ha can be used. If unexposed to sunlight these chemicals can remain effective in the soil as long as three months, thus killing generations of pupae as they emerge. Also, withholding of livestock after treatment is not necessary. Both these factors are important features with the Seedmatic.

Watch for slugs. Slugs like the moist groove produced by the wing blade opener. If slugs become a problem (eating seeds or seedlings underground), a suitable pellet should be used.

DIRECT SEEDING OF FEED CROPS AND ARABLE CROPS WITH GRASSFARMER

We are not in a position to give total formal recommended seeding rates, chemical usage and fertiliser recommendations because of circumstance that the Seedmatic will be used in will be so varied and diverse that some misunderstanding can occur.

Refer to the checklist and ALWAYS confirm with known successful CT operators as well as your local seed specialist and chemical company representatives. Remember that with this technique the environment is not as predictable as with cultivated soils, and take the precaution of using insecticide or increased fertiliser if there should be any element of doubt.

Seeding programs are wide and varied and it is best to look at rotation that starts with a legume or feed crop followed by a grain crop, followed by another feed crop and so on. Heavy pasture into grain is always disappointing, but grain after legume or brassica is outstanding.

Here are just a few possibilities:

Brassicas, Turnips, Swedes, Legumes ó Can be sown early spring (for winter feed) or again in autumn for later winter early spring feed. The technique is to blanket spray the entire area and ensure that seeding depths are shallow. A light bar harrow pulled over the seeding areas is beneficial. Use fertiliser and see your chemical company specialist with regard to the correct insecticide to use.

Winter Feed Oats ó This can be seeded direct into pasture in early autumn. Herbage control can be carried out also if necessary.

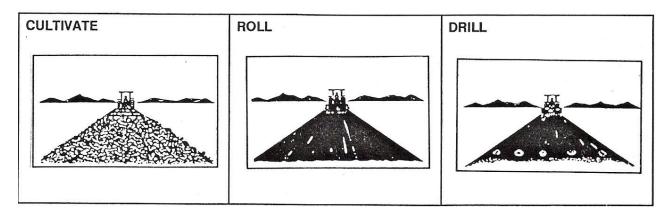
Wheat and Barley ó Direct seeding in early spring or autumn depending on variety. Always spray out pasture with approved herbicide (may not be necessary after brassica). Always sow with fertiliser.

Lucerne, Alfalfa ó Sow in early spring after spraying out entire area with Roundup or similar herbicide. It is always a good idea to do a soil test to ensure that the solid pH is satisfactory for plant establishment. Also it is necessary to ensure that the seeds are treated with inoculants to guarantee their germination and nodulation. Apply fertiliser and ensure that spraying and baiting for insects is carried out ó particularly for control of slugs and spring snails.

Green-feed Maize ó Carry out in early spring and the same rules apply as with wheat, barley and oats. You may wish to seed in 30 or 45 cm (12ö or 18ö) rows and the technique for achieving that is shown under the section **SPECIAL PURPOSE SEEDING** shown later in this booklet.

SOWING IN CULTIVATED SOILS

As this is a tined implement with a direct drill type opener, it is important to treat all seed beds as you would a pasture. With a conventional drill one works up the soil into a fine seedbed so that a broad boot type coulter will pass through leaving the seed behind the soil tilth. With the Seedmatic, cultivate the soil to destroy existing vegetation but before seeding, roll the seedbed thoroughly and then drill the seeds required into this rolled seedbed. Good germination results will occur.

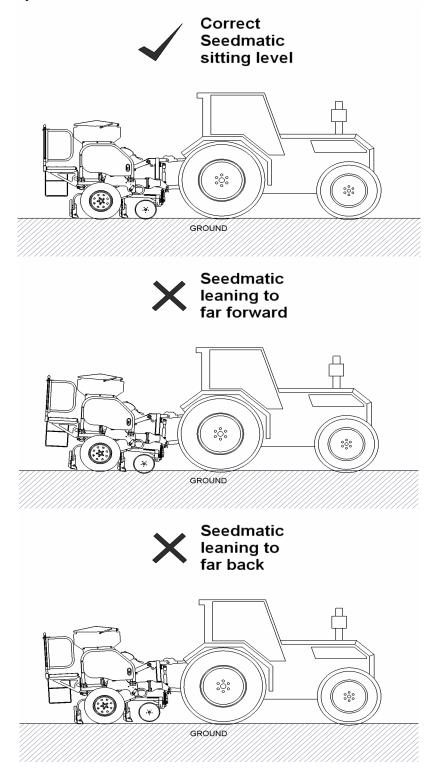


We recommend that a chain harrow be towed behind the seed drill or roll the field after seeding has been completed.

SETTING UP THE SEEDMATIC FOR USE

Connecting drill to tractor; 3 Point Linkage Models.

Connect the Seedmatic drill to the rear 3-point linkage of you tractor. Adjust the tractors top link arm so the drill frame is sitting parallel with the ground. Adjust the tractors sway chains to give 75-100mm lateral movement. The tractors hydraulics should be set to allow the drill to float over the terrain unimpeded by the movement of the tractor.



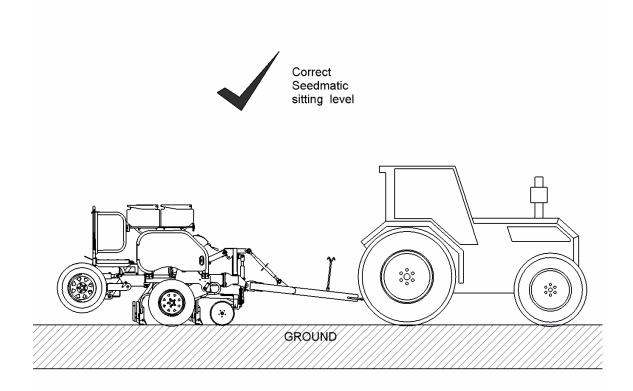
Connecting drill to tractor; Trailed Models.

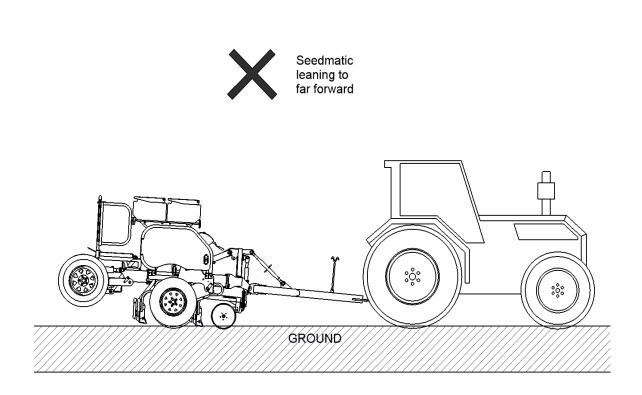
Connect the Seedmatic Drawbar to the tractors Towbar. Make sure you us a safety clip on the drawbar pin.

If you are to travel on public roads ensure you fit a **SAFETY CHAIN** between the Seedmatic Drawbar and the tractorøs Towbar.

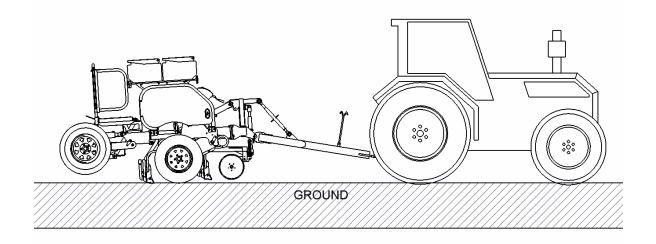
Connect the Seedmaticøs hydraulic hoses to one of the tractors hydraulic banks. This hydraulic system is used to rase and lower the rear transport wheels on the Seedmatic. When seeding the rear transport wheels can be fully rased clear of the ground.

Adjust the Drawbar top link to ensure that the Seedmatic drill frame is sitting parallel with the ground.





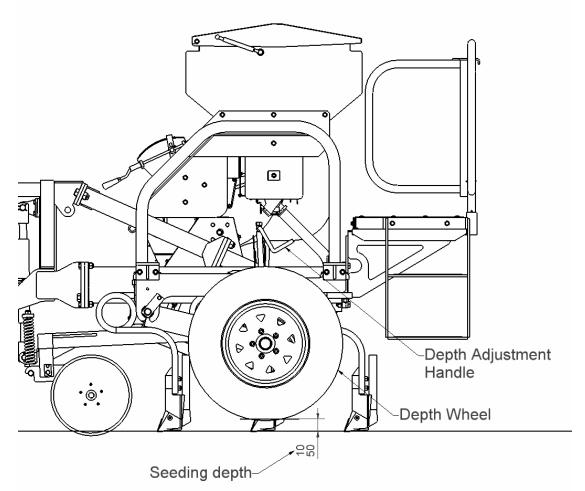




Set the depth wheels.

With the Seedmatic sitting on hard flat ground, the depth wheels should be 10-50mm clear of the ground, depending on your desired seeding depth. There is an adjustment handle at the top of each depth leg, use this to adjust the legs.

There is a depth gauge at the top of each depth leg, check that both depth legs are set at the same height



When the drill is in work, the best way to check your seeding depth is to have a scratch around in the seed slots behind the drill and check where the seeds are placed in the soil. Make the appropriate adjustments as needed.

At times we recommend that a chain harrow or roller is be towed behind the Seedmatic to help cover the seed slots. This will help prevent bird strike and can aid in seed germination.

DISC COULTER KITSET

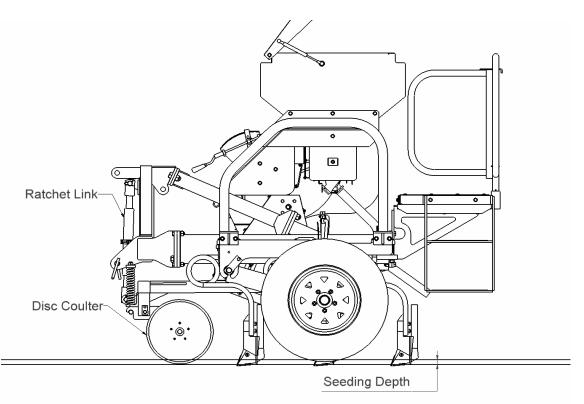
The Disc Coulters are designed to help cut trash/residue or stubble that may be present in the field. This trash/residue or stubble is cut into short lengths by the Disc Coulters, allowing the trash/residue or stubble to flow more efficiently past the Seed Openers resulting in fewer blockages. The Disc Coulters will also help prevent surface tearing in existing pastures when under sowing.

Setting up the Disc Coulter Kit

If your Seedmatic drill has a Disc Coulter Kit, it is important that this is adjusted correctly to get the best performance from your drill.

The Disc Coulters are usually set to the same depth as the Seed Openers or slightly shallower depending on ground conditions. To adjust the depth of the Disc Coulters turn the Ratchet Link attached between the disc coulter bar and the Headstock frame. In very hard ground conditions the Disc Coulters may hold-up the drill preventing the Seed Openers being at the correct depth, if this occurs reduce the depth of the Disc Coulters.

In very soft/damp ground the Disc Coulters may roll up a strip of turf, if this occurs reduce the depth of the Disc Coulters.

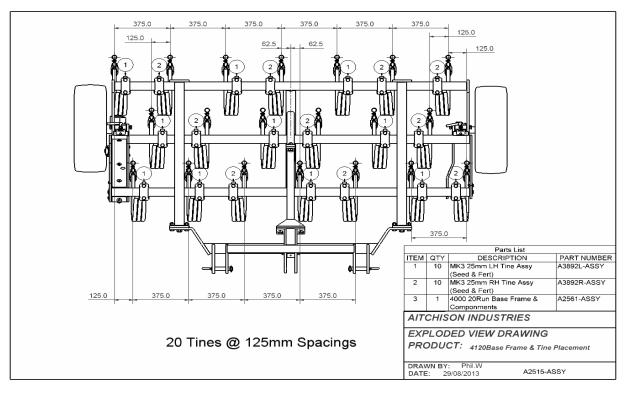


Tine Alignment

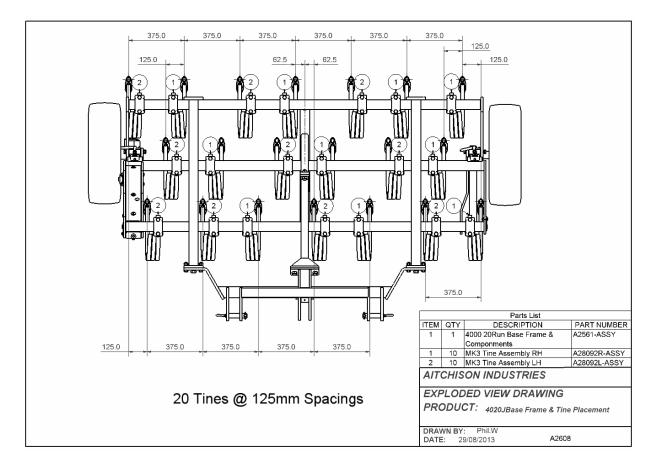
To get the best from your Disc Coulter kit check that the Seed Openers are tracking between the Disc Openers. Failure to do so could result in tearing of your pasture. To make these adjustments loosen the top Tine Clamp and slide the Tine along the mainframe tool bar until alignment is achieved.

TINE PLACEMENT

4120CT Tine Placement



4020J Tine Placement



CALIBRATING THE DRILL TO CHECK THE SOWING RATE

NOTE: When new, the Seed Pads may have a white powder (chalk dust) on them. This is to prevent them form sticking together during manufacturing. This chalk dust can impede your seeding rate until it has been removed or until it dissipates. This can be done by hand, or over time by using the seed drill. By Hand: This can be achieved by sliding the Seed Pad away from the housing and dusted off with the powder.

Dissipates: **Simply using the Seed Drill.** (The seeding rate will slowly increase as the chalk dust dissipates. (Usually within the first hour of use.) RE-CALIBRATE.

| chalk dust dissipates. (Usually within the first l | nour of use.) RE-CALIBRATE. |
|---|---|
| (1) Prime: | (2) Seed Catchment: |
| Place seed in the hopper over any 5 adjoining outlets. Rotate the Crank Handle until a steady flow of seed can be witnessed falling from the seed outlets. | Place the Calibration Tray under the 5 appropriate Seed metering Units to catch the metered seed. |
| Set the Gearbox pointer in the appropriate position for you desired seed sowing rate. (See Seed Chart under hopper lid.) | Another method is to pull the black seed dropper hose off the 5 appropriate Coulter Tubes and place them in a bag or container. |
| (3) Seed Metering: | (4) Weigh Seed: |
| Crank Handle Storage | Catch and weigh the total amount metered through the 5 metering units. (in grams). |
| Crank Handle | NOTE: Remember ‰ARE+scales before weighing; for the weight of the bag or container. |
| Rotate Crank Handle Clockwise 29 times. | |
| (5) Conversion: | (6) Check: |
| Divide the weight measured by 3 to establish kilograms per hectare. | Gearbox Pointer |
| ie: 45 grams / 3 = 15kg/ha | Gearbox Pointer Adjuster |
| Eallow the above store to calibr | If above or below the desired rate, make the necessary adjustment via the Gearbox Pointer Adjuster. RECALIBRATE |

Follow the above steps to calibrate the Fertiliser Hopper.

LAYMANS GUIDE TO SEEDING VARIANCE

The Aitchison Sponge Seed Delivery System is a highly accurate, consistent and gentle method for delivery of seeds. We are pleased you chose to make use of our technology. To get started, we have created the attached seed charts. They are guides that will in many cases allow you to start with reasonable accuracy.

Along with these charts you will also need to know how to compensate for variations in seeds. We are fortunate to have many companies that are constantly providing new varieties of seed; however, this also makes any seed chart a GUIDE ONLY. Use the rules listed below when suitable, and when you need more accuracy consider the following:

The seed count may be different; the coatings on the seed may be different; the humidity can be different; the seed size due to cultivars may be different; the moisture content of the seeds may be different; the seed may be husked or still have it seed; and other differences which could affect the seeding rate.

Example

Temperate charts were calibrated for Ryegrass. Line 1 on Range 1 was calibrated at an ambient temperature of $64^{\circ}F(18^{\circ}C)$. Moisture content of the seed was 14%. The 1000 seed count was 0.07 ounce (2 grams) and the seeds were approx ¹/₄ö long (6.6mm) by 1/16ö wide (1.5mm). There were no coatings or dressings and was cleaned of gin trash.

Note also that all seeds used on original chart were uncoated.

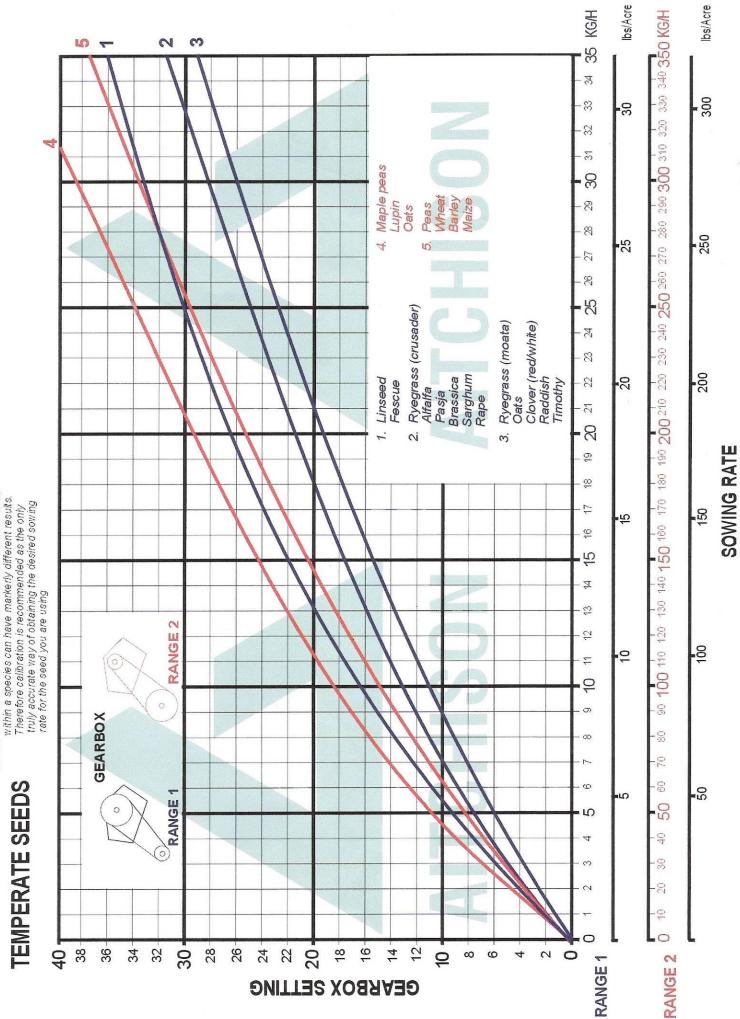
As it is unlikely your sample will directly match the above we suggest calibration at all times. Below are some general guidelines on what influences will affect you seeding.

SEED SIZE: Small seeds flow faster

SEED COATING: Fungicides that are dull and sticky will slow seeding rates.
TEMPERATURE: Cold will slow seeding rates, heat will increase seeding rates.
HUMIDITY: High humidity slows sowing rates, dry increase sowing rates.
SEED MIXTURE: Sowing small round seeds with flat long seeds, i.e. ryegrass and clover, the rate of the small seeds could increase significantly.
WHEEL DIAMETER: On cultivated soil slippage will reduce sowing rate.
RECORD PREVIOUS RESULTS: Keep a note book and record for future reference, mixtures, conditions and setting chosen.

Think in four quarters not the whole paddock. When the hopper runs out (1/4 paddock) check your rate back from the area covered.

REMEMBER: ALWAYS CALIBRATE BEFORE SEEDING!!!



NOTE: This chart is a GUIDE ONLY and different seed lines

49

DIFFICULT SEEDS TO SOW

There are a number of seeds that are difficult to sow due to their physical shape and weight.

These include:

Prairie Grass Buffel Grass Callida Rhodes Grass Unclipped oats

If seeds adhere to the sponge pad, fit the oat wiper (Part # A2366). If there are problems with large seeds failing to pick up with the sponge it will be necessary to fit the bean spacers (Part # A2365-01) which space out the pads leaving a greater surface to pick up seed.

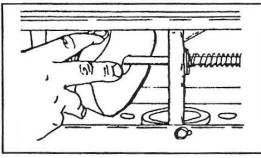
OAT WIPER AND BEAN SPACER

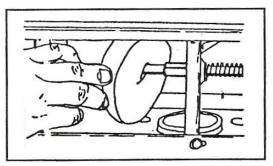
Bean Spacer (Optional)

When sowing large smooth seeds such as beans markedly improved seeding performance is achieved by fitting spacers between the sponge and the seeder casting. This in effect moves the sponge away from the seeder casting and allows for better entry of the seeds into the sponge. A better -pick upøis attained and seeding consistency is improved.

Also to decrease the advent of intermittency and improve seed spacing it is advisable to use the seeder agitator set on maximum spring pressure.

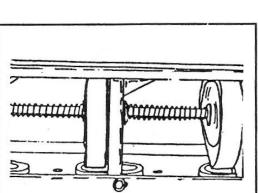
To fit the spacers follow these instructions:





- 1. Pull the sponge away from the seeder casting.
- 2. Fit the Bean Spacer between the sponge pad and the seeder unit.
- 3. Allow the sponge pad to return to the seeding position with approx 3mm (1/32ö) between the sponge pad and seeder unit.

WARNING: When the bean spacers are fitted always go back and recalibrate the drill.



If small seeds need to be sown (i.e. grass seed,

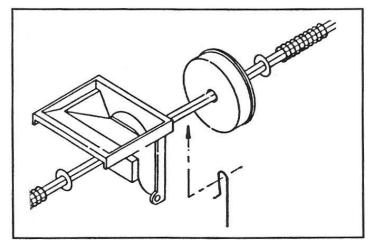
brassicas) or small grains (i.e. wheat) always remove the spacers and store in a safe place.

OAT WIPER (Optional)

The oat wiper is an optional extra that is designed to wipe clean the sponge pad if heavily awned seeds are not being sown. These will tend to collect on the pad and as the build-up increases inaccuracies in the seeding rates will occur.

To fit the wiper, remove the front panel from seed box. Pull the sponge pad away from the seeder assembly and place the wiper on the centre shaft BETWEEN the pad and the casting. The wiper works in such a way that it presents a flexible edge on the oats and in effect -wipesøthe seeds that may be sticking to the pads on each rotation.

Fit the Oat Wiper between the sponge pad and the seeder unit.



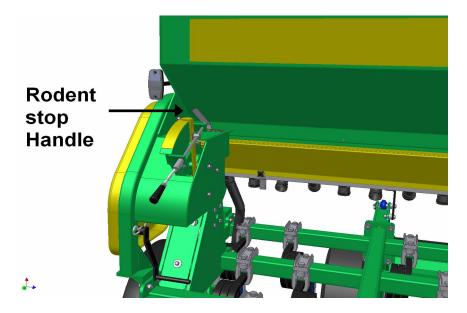
RODENT DANGER

The sponge seed mechanism is unique ó it has great capacity to sow seed consistently and accurately. However, if seeds are left in the hopper over the winter months rats and mice will find an entry point into the hopper by chewing through the sponge pad to reach the seeds. The simple solution therefore is to **remove the seeds**.

BLANKOFF TRAY

Your SEEDMATIC drill is equipped with a õ Blankoff Trayö. This blankoff tray is located under the seed hopper, between the seeder units and the seed dropper hose. The purpose of this blankoff tray is to help prevent rodent damage to the sponge pads. Located at the drive end (RH side of drill) is the sprung handle, this handle slides and locks the blankoff tray.

The blankoff tray should be open when planting seeds, then slid closed when the drill is not in use to prevent rodents from climbing up the seed dropper hoses.

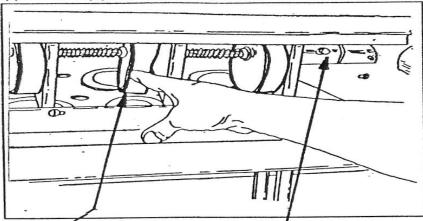


Move Handle towards the centre of drill to close off.

To give added protection, sponge pads can be treated with any strongly odoured insecticide powder ó DIASINIT, LINDANE, MALATHION, and THIMET. **Note**: Rodent repellent can also be ordered from Aitchison**\$** via your local dealer (Part # 9341).

REMOVAL OF SEED FROM HOPPER

There is probably no easier drill to clean than this Aitchison Drill. Remove the front/rear panel by way of wing nuts and manually move the sponge pads away from the seeder casting. Any remaining seeds within the hopper will simply fall out. A small brush can be used to sweep any remaining seeds from the hopper.



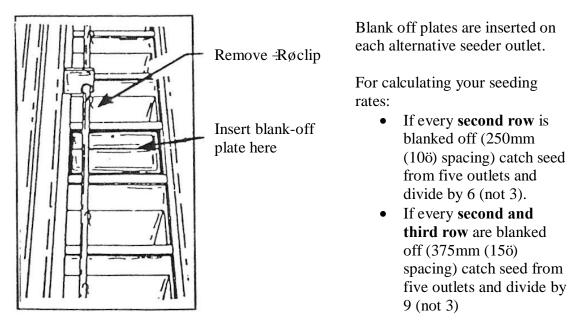
Push pads away to clean out seeds. To remove pads, loosen this setscrew and move shaft to the left.

SPECIAL PURPOSE SEEDING

If the quantity of seed is too small to accurately weigh then collect the seed from 8 outlets and halve the result before applying the general formulae.

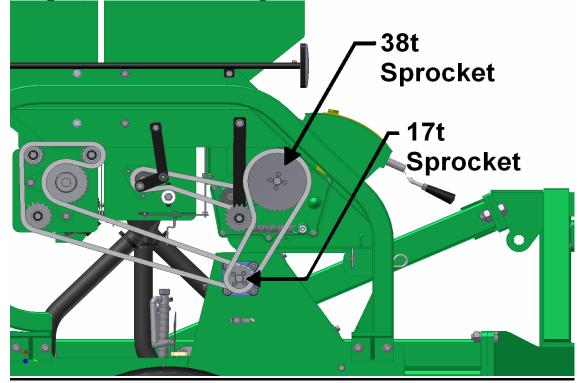
Using Blank Off Plates

If the blank off plates are used ó this drill is calculated for rates of 150mm (6ö) spacing. Blank off plates can be used if wider rows are required. These are fitted by removing the õRö clip agitator pin and fitting a plate (see illustration). These are simple to make using a square of stiff plastic or plywood.



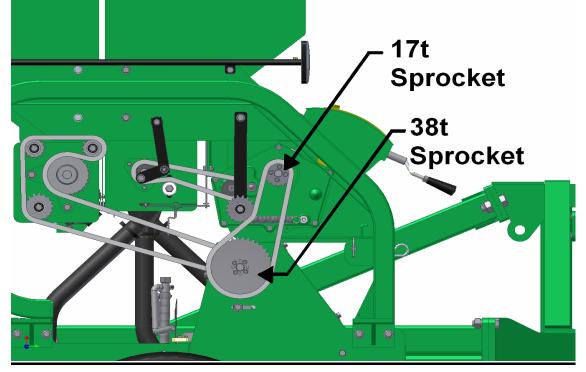
CHANGING THE GEARBOX RATIO: Range 1 – Range 2

To change range: use a 5mm Hex Key to remove the 4 Cap Screws in each sprocket; replace them end for end.



Range 1; Ratio for low seeding rates and small seeds.

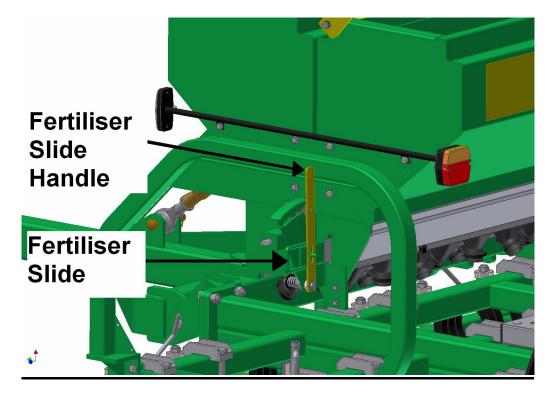
Range 2; Ratio for high seeding rates and big seeds.



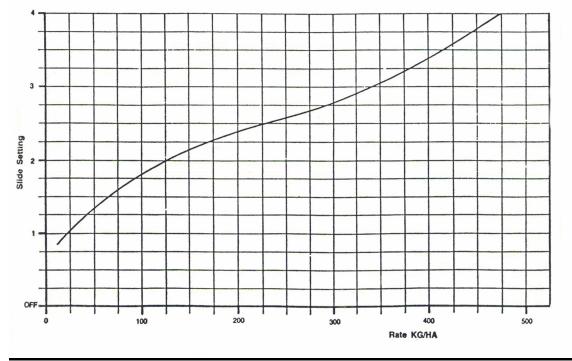
THE FERTILISER SYSTEM

Different types of fertiliser may vary slightly from the general rate of curve shown. The fertiliser rate is verified by using the same calibration procedure as used to calibrate the seed. (Page 20)

To change the fertiliser application rate, move the slide in for less or out for more.



FERTILISER APPLICATION CHART





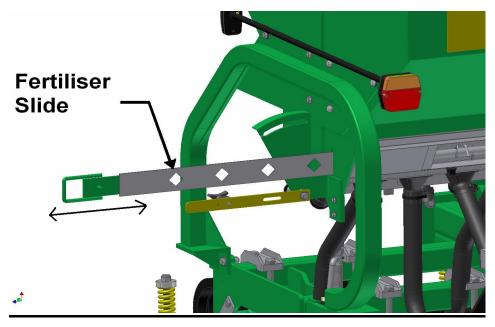
MAINTENANCE AND CLEANING THE FERTILISER HOPPER

The fertiliser hopper should be thoroughly cleaned after use and potential rust areas brushed down with diesel. The fertiliser slide may be easily removed without tools as shown below.

Remove the slide at the end of your planting season to ensure it cannot corrode in place,

To empty or clean the fertiliser hopper remove the Auger Baffle and the rear Inspection Panels and brush out any remaining fertiliser.

FERTILISER SLIDE REMOVAL

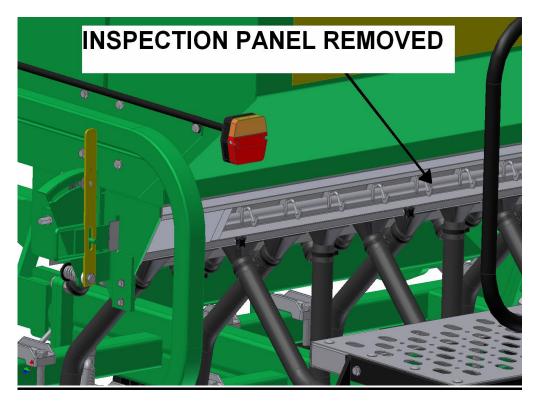


AUGER BAFFLE REMOVED

Looking down inside the fertiliser hopper.

| AUGER BAFF | |
|------------|--|
| | |
| | |

REAR INSPECTION PANELS REMOVED



GENERAL MAINTENANCE

LUBRICATION

The gearbox should be kept filled up to the sight glass though top-ups should seldom be necessary. The oils recommended are: BP Vanellus DD50 (GL1 90.), TOTAL Carter (EP 220) or equivalent.

NOTE: <u>Do not</u> us a hypoid type of oil, as damage will occur.

Machines Grease Points:

- 1 per Disc Coulter Pod assembly.
- Drive Leg assembly.
- Depth Leg assembly
- Seed Shaft drive.
- Fertiliser Shaft drive.
- Rear Transport assembly.



Greasing location points are labelled on the drill with the õGreaseö sticker (shown above). Chains should be kept lubricated and should be removed at least once each season and thoroughly cleaned and oiled.

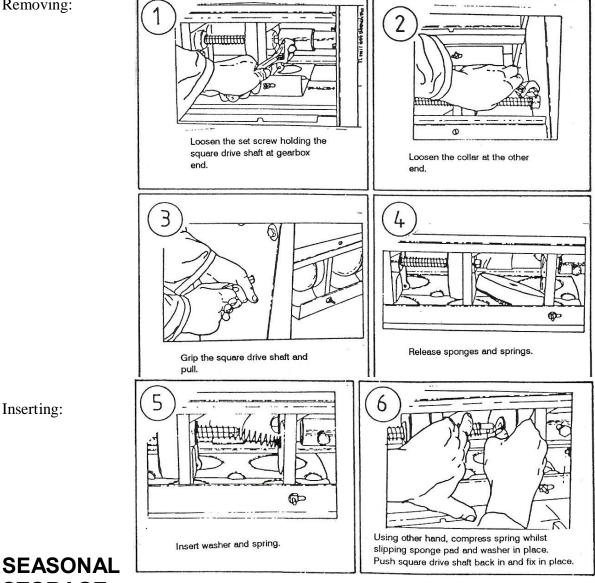
CARE OF THE SPONGE PADS

The sponge pads are easily accessible for maintenance and cleaning by removing the inspection panel at the bottom of the seed hopper. The seed hopper should be cleaned thoroughly after use as vermin show little respect for a sponge pad if there is seed behind it.

To empty the hopper of seed, push the pads away from the seeder units to let the seed fall through. Do not leave seed lodged between the pad and seeder unit, as this will distort the pad giving erratic sowing. The sponge pads are replaced as shown below.

REPLACEMENT OF SPONGE PADS

Removing:



SEASONAL STORAGE

The drill should be thoroughly cleaned and lubricated and stored out of the weather. Look for any unusual wear and remedy the cause. If this requires parts it is best to order them well in advance of the next sowing season. Check all nuts and bolts for tightness. Adjust the depth wheels so the weight of the drill is on the tines and not on the tyres.

TINE CLAMPS

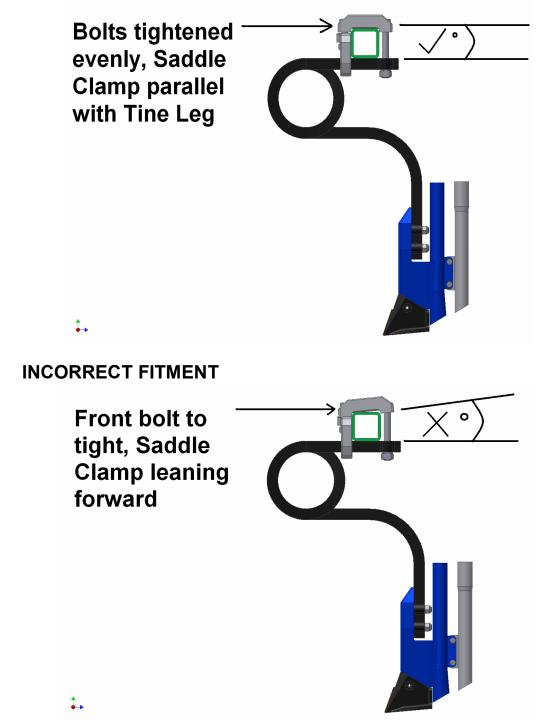
The 4000 Series Seedmatic is fitted with 65mm Saddle Clamps, these camps have been designed to stop the tines from õwalkingö along the tool bars.

Some care needs to be taken when fitting these new clamps.

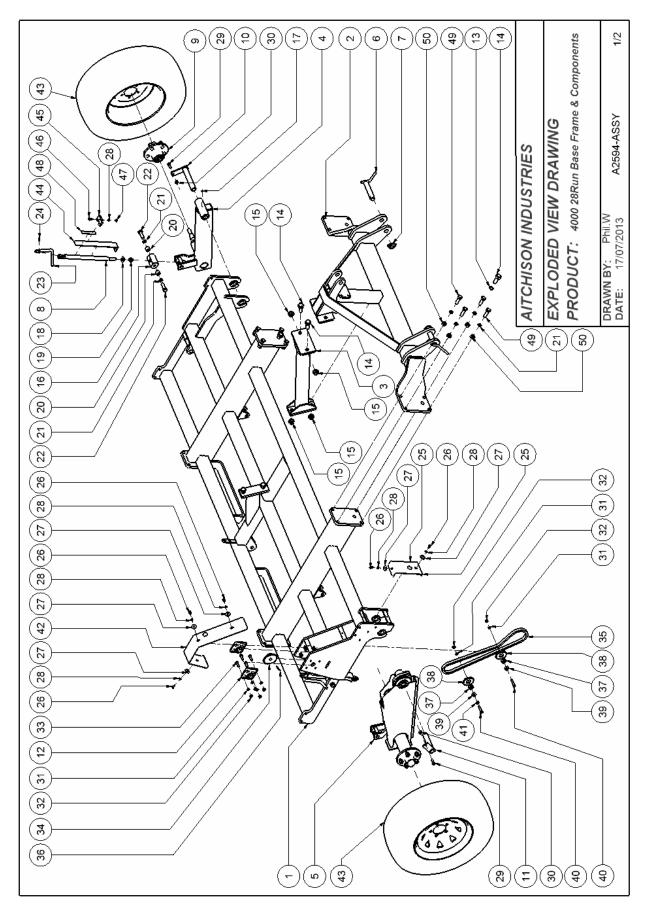
When fitting or adjusting ensure that the M16 bolts are tightened evenly so both the Saddle Clamp and the straight leg of the tine are parallel to each other.

The M16 bolts should be tightened to 200Nm (147ftlb) Maximum.

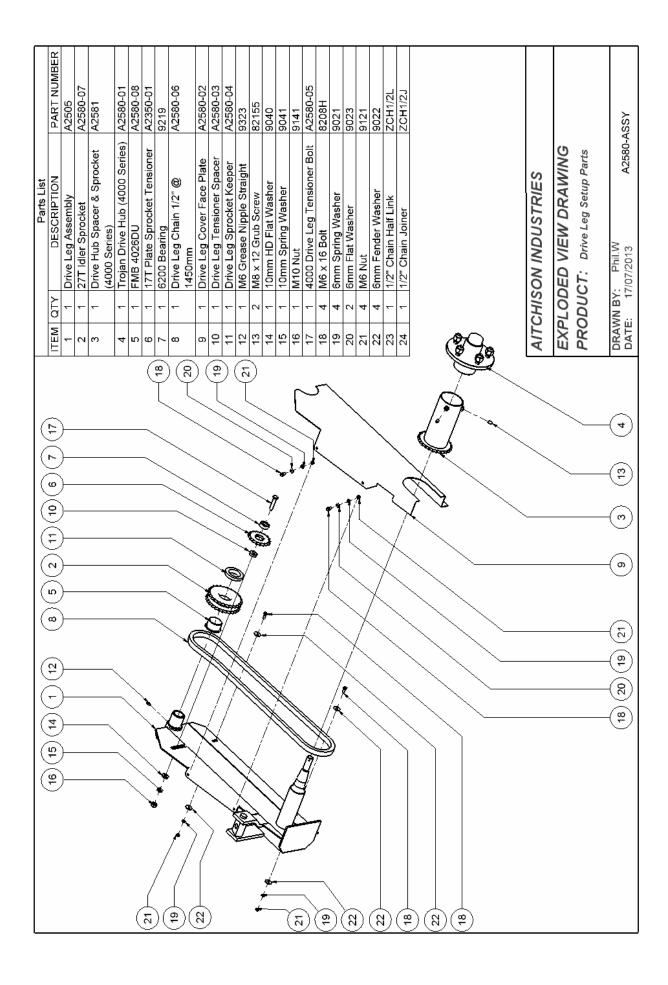
CORRECT FITMENT



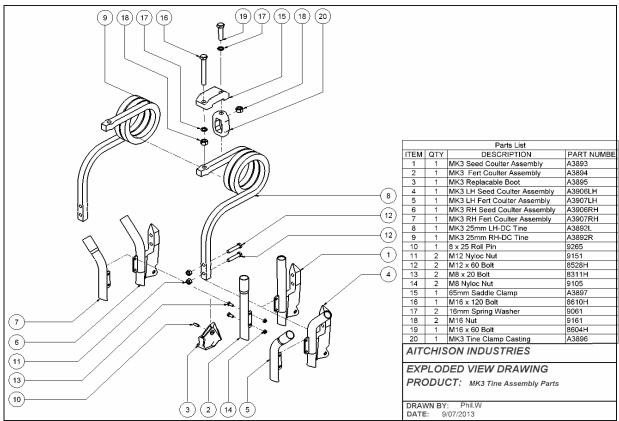
PARTS BREAKDOWN



| PART NUMBER ITEM QTV A25605 28 7 Bmm Spring With A2503 30 2 M10 Nute Spring With Nute Spring With A25603 33 10 100 xolo Bhit M10 Nut A25603 33 11 100 Nut Spring With Spring With A2560 33 1 400 xolo Bhit M10 Nut A2560 35 1 400 xolo Bhit M10 Nut 42507 37 2 2 200 Bhit M10 Nut 42507 37 2 2 10 | | Parts List | | | | | |
|--|----------------|-----------------|--------------|------|-----|---|-------------|
| 1 3.00 Head Stock Assembly. 22556 28 7 Bim Synip Wys Shin | | DESCRIPTION | PART NUMBER | ITEM | QTY | DESCRIPTION | PART NUMBER |
| 1 1000 Head Stock Assembly 25602 29 2 M10 xyloc Nut 1 1 Depth Leg Steembly 25504 31 2 M10 xyloc Nut 1 1 Depth Leg Steemply 25504 39 2 M10 xyloc Nut 2 NL Cat 2 Hitch Pin 22580 34 1 27 Sproder 1 2 NL Cat 2 Hitch Pin 22580 33 1 2 X10 x3 Bott 2 NL Cat 2 Hitch Pin 22560 35 1 4 27 Sproder 1 2 Num Syncing Mater 2266 35 1 2 Sproder 1 2000 Sprofer 1 2 2 2 1 1000 Sprofer 1 2 | ame As | embly | A2595 | 28 | 7 | 8mm Spring Washer 9030 | 30 |
| 1 1 Hattox (Say Assembly) 22503 30 2 M10 Myoc Min 1 Depth Leg Assembly 2 2 M10 Myoc Min 275 10 M10 Min 2 2 11 Dirve Leg Sent 31 8 275 56 M10 2 2 11 Dirve Leg Sent 23 31 8 177 258 56 M1 1 263 16 100 Min 223 36 M1 36 8 1 275 265 Distribut 2265 36 4 200 Sentes Di 1 263 2 117 198 27 2 20 101 Min 233 2 117 198 26 1 200 Sentes Di 2 2 11 100 1 2 2 21 10 200 Min 2 2 11 100 10 2 2 1 2 2 10 10 2 2 10 10 2 2 2 | ad Stoc | k Assembly | A2502 | 29 | 2 | | 8415H |
| 1 Depth Leg Assembly 2564 31 10 10mm Spring W 2 1 Im Vyneh Pin 2325 33 8 M10. X3 Bolt 2 2 Im Carl Carl Filth 2325 34 1 207 Science 11 2 2 Depth Carl Carl Filth 2325 34 1 207 Science 11 2 1 Trojan 5 Suid Hu 2325 35 1 400 Science 11 1 1 dood Depth Leg Priver Fin 2256 35 2 17 Trojan 5 Science 10 2 Depth Carl Fin 2250 35 2 10 100 Science 11 1 4000 Direct Leg Priver Fin 2250 35 2 17 Trojan 5 Science 10 2 2 Rol Direct Lig 2 200 Direct Lig 37 2 100 Direct Lig 3 3 1 1 2 101 Direct Fin 2550 Science 10 4 MC Science 100 Finder 37 4 4 2 100 Science 10 3 MG Science 100 Finder 37 | ck Stay | Assembly | A2503 | 30 | 2 | M10 Nyloc Nut 9142 | 42 |
| 1 Dirve Leg Setup 2580-ASSY 32 10 M10. htt 2 All. Cartic Rod Assembly 22361 34 1 27580-ASSY 35 1 200 86 1 200 58 1 200 58 1 200 58 1 200 58 1 200 58 1 200 58 1 200 58 1 200 58 1 200 58 1 200 58 1 200 58 1 200 58 1 200 58 1 200 58 1 200 58 1 200 58 1 200 58 58 1 200 58 58 51 1 1 1 1 1 2 1 2 2 1 1 2 1 2 53 51 53 53 51 1 2 51 1 1 1 2 | eg Asse | mbly | A2504 | 31 | 6 | 10mm Spring Washer 9041 | 141 |
| 2 All.Cat 2 Hitch Pin 233 8 M10, x35 Bolt 2 2 Hitch Pin 2276 34 1 2275006471 1 Trojan 5 Stud Hub 7750 35 1 4000 Sense Lib 1 1 Trojan 5 Stud Hub 7750 37 2 1 1275006471 1 1 4000 Dine Leg Pinot Pin 2576 38 1 6.500 Sense Lib 2 2204 Bearing & Housing 2750 38 2 171 14005 2 2204 Bearing & Housing 2720 38 1 6.500 Sense Lib 2 2000 Dine Leg Pinot Pin 27205 38 2 171 1401 3 2 2010 Fin 27205 38 2 101 5 Chain 3 3 1 3 1 2 201 5 Fin 2 3 3 1 1 2 11 1 1 1 1 1 1 1 1 1 2< | g Setup | | A2580-ASSY | 32 | 6 | M10 Nut 9141 | 41 |
| 2 1 thm Lytori: Plin 928 34 1 227 Sprokert 1 2 Depth Cortrol Rod Assembly 786 1 4000 Starte DI 1 1 4000 Depth Leg Pivot Pin 72507 37 2 6200 Bearing 1 1 4000 Depth Leg Pivot Pin 73205 38 2 10.000 Depth Leg Pivot Pin 2 1 4000 Depth Leg Pivot Pin 73207 37 2 6200 Bearing 2 2 20m Spring Washer 9775 38 2 1100m HP Fait 3 2 20m Spring Washer 9776 40 2 M10 Syring Washer 3 3 5 3975 44 2 1000 HS Piaf 4 400 Depth Beg Trunion 9253 45 2 1000 HS Piaf 2 M16 Nyloc Nut 9233 45 2 1000 HS Piaf 3 M6 Grasse Nipple Straight 9053 45 2 1000 HS Piaf 4 400 Depth 9171 43 2 1000 HS Piaf 1 1 166 3053 45 2 1000 HS 2 400 Depth Beg Trunion 9269 46 2 M8 v16 3 4< | 2 Hitch | nic | A2327 | 33 | ∞ | | 8402H |
| 2 Depth Control Rod Assembly A2506 35 1 4000 Spectres DI Trojants State Hub Tre 082030 35 1 4000 Spectres DI A2507 1 1 4000 Depth Log Prot Plin A2501 37 2 5 Cool Beening Di A2501 37 2 1000 Dispect Plin 5 Cool Beening Di A2501 38 2 117 Plate Spro Di A2509 38 2 117 Plate Spro Di A2509 38 2 1001 10000 1000 1000 1 | /nch Pi | | 9288 | 34 | - | 22T Sprocket 1/2" Pitch 20mm Bore | A2500-09 |
| 1 Trojan 5 Stud Hub Tre Ro 62030 36 1 6 × 50 Rol Pin 1 1 4000 Device Leg Pivot Pin 237 2 2000 Bearing 2 2 2004 Bearing & Housing 937 2 D.10 2 D.17 2 2 D.10 2 D.10 2 D.10 2 D.10 2 D.10 2 D.10 D.11 D.10 D.10 2 D.10 D.11 D.10 D.11 D.10 D.11 D.10 D.11 D.10 D.11 D.10 | ontrol R | od Assembly | A2506 | 35 | - | 4000 Series DL to LS Chain A25 | A2500-08 |
| 1 1 4000 Depth Leg Pivot Pin A2507 37 2 5200 Bearing 2 1 4000 Diver Leg Pivot Pin A2507 38 2 1/17 Plate Sprout 2 2 20mm Spring Washer 9276 40 2 M10 x 50 Bolt 2 2 Threaded TopT runion 9172 42 1 100mm UP Flat 3 MG Grease Nipple Straight 9172 43 2 216m2 Shade 2 MiG Nuc 16 4000 List 44 2 Depth Gauge Shad 3 MG Grease Nipple Straight 9323-01 47 2 Depth Leg Dept 12 16 mm ZP Washer 16 46 2 M8 v.t. 12 16 mo Sproig 9333-01 47 2 Depth Leg Dept 13 16 Not Sut 16 46 2 M8 v.t. 14 4000 Depth Red Pin A2500-01 47 2 M8 v.t. 14 10000 Leg Pin 4000 Depth 48 < | Stud H | | TR 082030 | 36 | - | 6 x 50 Roll Pin 9262 | 62 |
| 1 4000 Drive Leg Pivot Pin A2508 38 2 171 Plate Spro 2 1 2000 Drive Leg Pivot Pin 9271 92205 39 2 DL tol S Chain 2 2 20mm Sking Washer 975 40 2 DL tol S Chain 2 2 20mm Sking Washer 975 42 1 4000 List 2 3 3 36 5114 41 1 10mm HD Flat 3 3 M6 Gresse Nipple Straight 9375 42 1 4000 Lagr Proving Science 2 16mm ZP Washer 9063 45 2 Depth Gauge R 4 4000 Depth Reg 9076 48 2 Depth Gauge R 4 4000 Depth Rod Handle 23323 45 2 Depth Gauge R 5 M16 x 50 Bolt 41 48 M16 x 55 Bolt 48 2 Depth Gauge R 6 1 4000 Depth Rod Handle 9063 52 1 1/27 Chain Half 5 </td <td>pth Leg</td> <td>Pivot Pin</td> <td>A2507</td> <td>37</td> <td>2</td> <td>6200 Bearing 9219</td> <td>19</td> | pth Leg | Pivot Pin | A2507 | 37 | 2 | 6200 Bearing 9219 | 19 |
| 2 F204 Bearing & Housing 32 2 Dlu bLS Chain 2 20mm Sping Washer 8711H 41 1 10mm JD Fail 4 M20 Nyloc Nut 8711H 41 1 10mm JD Fail 2 Threaded Top Trunion 8711H 41 1 10mm JD Fail 2 Threaded Top Trunion 8711H 41 1 10mm JD Fail 2 Threaded Top Trunion 8711H 41 1 10mm JD Fail 2 Threaded Top Trunion 8711H 41 1 400 Lag Sping 2 16mm ZP Washer 9053 45 2 Depth Leg Depth 2 16mm Spring Washer 9053 45 2 M8 NL 2 16mm Spring Washer 9053 51 1 2 Depth Leg Depth 2 16mm Spring Washer 8616H 49 8 M16 x 55 Bolt 1 </td <td>ve Leg</td> <td>Pivot Pin</td> <td>A2508</td> <td>38</td> <td>2</td> <td>17T Plate Sprocket Tensioner A23</td> <td>A2350-01</td> | ve Leg | Pivot Pin | A2508 | 38 | 2 | 17T Plate Sprocket Tensioner A23 | A2350-01 |
| 2 20mm Spring Washer 9076 40 2 M10 x 50 Bolt 4 M200 x 50 Bolt 8711H 41 1 10mm IDF Fat 2 Threaded Top Trunion 9172 42 2 M10 x 50 Bolt 3 M6 Grease Nipple Straight 912 3 2 215-75R 14C W 3 M6 Grease Nipple Straight 9323 44 2 Depth Gauge R 1 416 Njoru 16 46 2 M6 x 20 Bolt 12 16 Sing Washer 9061 47 2 M8 x 55 Bolt 12 16mm Spring Washer 9061 48 2 Depth Gauge R 12 16mm Spring Washer 9061 48 2 Depth Hag 12 16mm Spring Washer 9061 48 2 Depth Hag 13 14 4000 Depth Leg Trunion Keeper A2500-01 47 2 Depth Hag 14 4000 Depth Leg Trunion Keeper A2500-03 51 1 1/2° Chain Hal 14 4000 Depth Leg Trunion Keeper A2500-03 52 1 1/2° Chain Hal 15 A88 x 20 Bolt A88 x 20 Bolt A88 x 20 Bolt A88 x 20 Bolt 1/2° Chain Hal 16 M88 x 20 Bolt< | aring & | Housing | 9221 / 92205 | 39 | 2 | n Tensioner Spacer | A2500-04 |
| 4 M20 x 50 Bolt 8711H 41 1 10m HD Flat' 2 4 M20 x 50 Bolt 43 1 1 10m HD Flat' 3 M6 Grease Nipple Straight 9373 44 2 21-557 Flat Vas' 2 16m ZP Washer 9063 45 2 Depth Gauge Ruge 2 16m ZP Washer 9063 45 2 Depth Gauge Ruge 13 M6 Grease Nipple Straight 95330-01 47 2 Depth Gauge Ruge 2 M16 Nuc 16A 46 2 M8 N2 Straight 2 14 10 16H 47 1 46 2 M8 N2 Straight 12 16m Spring Washer 9661 48 1 47 2 Desth x 55 Bolt 14 400 Leg Protocore 8516H 49 8 M16 x 55 Bolt 14 400 Leg Protocore 8269 51 1 1/2" Chain Half 5 8816H 53 1 1/2" Chain Hal | pring M | asher | 9076 | 40 | 7 | | 8403H |
| 4 M2D Nyloc Nut 9172 42 1 4000 Lay Shaft 2 Threaded Top Trunion 82309-01 43 2 245-757 T4C VB 2 16mm ZP Washer 9063 45 2 264-756 T4C VB 2 16mm ZP Washer 9063 45 2 20640 Ta 4 4000 Depth Leg Trunnion Keeper 16A 46 2 M8 x25 Bolt 4 4 4000 Depth Rod Handle 45 2 M8 utr 2 4 4000 Depth Rod Handle 46 2 M8 x25 Bolt 2 4 4000 Depth Rod Handle 255 1 1/27 Chain Half 2 6 x 20 Roll Prin 8311H 53 1 1/27 Chain Half 5 Mm Fander Washer 8311H 53 1 1/27 Chain Jain 6 8 M 600.1 33 1 1/27 Chain Jain 5 8 M 200.00 52 1 1/27 Chain Jain 6 8 M 200.00 |) Bolt | | 8711H | 41 | - | 10mm HD Flat Washer 9040 | 140 |
| 2 Threaded Top Trunion 22339-01 43 2 215-75R 14C W 3 66 Grease Nipple Straight 9323 44 2 Depth Gauge R 2 8 fmm ZP Washer 965 44 2 Depth Gauge R 2 8 fmm ZP Washer 965 45 2 Depth Gauge R 12 16 Myloc Nut 46 2 NB Nut 46 2 NB Nut 12 16 Sping Washer 9061 47 2 MB Nut 12 6 mu Spring Washer 9061 48 2 NB Nut 2 6 x 20 Roll Pin 225 55 8 MI6 x 55 Bolt 2 6 x 20 Roll Pin 225 56 8 110 122 5 MB x 20 Bolt 8311H 53 1 1/27 Train Half 6 8 7 902 53 1 1/27 Train Half 6 8 8311H 53 1 1/127 Train Half | oc Nut | | 9172 | 42 | - | | A2500-05 |
| 3 MG Grease Nipple Straight 9323 44 2 Depth Leg Dept 2 16mm.ZP Washer 9063 45 2 Depth Gauge Rauge Rau | d Top T | runion | A2309-01 | 43 | 2 | 215-75R 14C Wheel Assembly A25 | A2500-10 |
| 2 16mm ZP Washer 9063 45 2 Depth Gauge R 2 W16 Nyloc Nut 16A 46 2 M8 x 25 Bolt 12 16mm Spring Vasher 9061 47 2 M8 x 15 12 16mm Spring Vasher 9061 48 2 M8 x 16 2 4 M16 x 50 Bolt 46 48 8 M16 x 17 2 4 M16 x 50 Bolt 8616H 49 8 M16 nut 2 6 x 20 Bolt 8616H 49 8 M16 nut 3 1 42500-012 50 8 M16 nut 5 6 x 20 Bolt 9269 51 1 1/2" Chain Juin 6 8 M16 nut 9031 53 1 1/2" Chain Juin 6 8 M16 nut 9032 53 1 1/2" Chain Juin | se Nip | le Straight | 9323 | 44 | 2 | | A2500-06 |
| 2 M16 Nyloc Nut 16A 46 2 M8 x25 Bolt 1 1 16 Nyloc Nut A2500-01 47 2 M8 x15 1 1 16 Min Sping Washer 8061 48 2 M8 x25 Bolt 1 2 4000 Depth Rod Handle A2500-01 47 2 M8 Nut 2 4000 Depth Rod Handle A2500-02 50 8 M16 Nut 2 6 x 20 Roll Plin 43 8 7 1 12 1 4000 Leg Pivot Cover 8311H 53 1 1/2* Chain Half 5 8m Fender Washer 9032 51 1 1/2* Chain Join | P Wash | er | 9063 | 45 | 2 | | A2500-07 |
| 4 4000 Depth Leg Tunnion Keeper A2500-01 47 2 M8 Nut 12 16mm Spring Washer 9061 48 2 Decal-off-Dep 2 4 M16 x 50 Bolt 86 16H 48 2 Decal-off-Dep 2 5 500 Depth Rod Handle 86 16H 48 2 Decal-off-Dep 2 5 5 500 Equit Nod 87 1 172 Chain Half 1 4000 Leg Pivot Cover 8311H 53 1 1/27 Chain Join 5 8m Fender Washer 9032 52 1 1/27 Chain Join | oc Nut | | 16A | 46 | 2 | | 8305H |
| 12 16mm Spring Washer 9061 48 2 Decal - GF Dep 4 Mr16 x 50 Bolt 8616H 49 8 Mr16 x 55 Bolt 2 4000 Depth Rod Handle A2500-02 50 8 Mr16 x 10 2 900 Lepth Rod Handle A2500-02 50 8 Mr16 x 10 1 400 Lepth Rod Handle A2500-02 51 1 1/2" Chain Halt 5 M8 200 Lepth Rod Handle 8311H 53 1 1/2" Chain Halt 5 Bmr Fender Washer 9032 1 1/2" Chain Join | pth Leg | Trunnion Keeper | A2500-01 | 47 | 2 | | 06 |
| 4 M16 x 50 Bolt 8616H 49 8 M16 x 55 Bolt 2 4000 Depth Rod Handle A2500-02 50 8 M16 Nut 2 6 x 20 Roll Plin 9269 51 2 M00 Log 1 4000 Leg Plvot Cover 8311H 53 1 1/2" Chain Half 5 MB x 20 Bolt 8311H 53 1 1/2" Chain Half 6 MB x 20 Bolt 9032 1 1/2" Chain Join | pring W | asher | 9061 | 48 | 2 | | D1525 |
| 2 4000 Depth Rod Handle A2500-02 50 8 M16 Nut 2 6 x 20 Roll Pin 9269 51 2 N20 x 55 Bolt 1 4000 Leg Pivot Cover A2500-03 52 1 1/2" Chain Half 5 MB x 20 Bolt 8311H 53 1 1/2" Chain Half 6 Binm Fender Washer 9032 1 1/2" Chain Join |) Bolt | | 8616H | 49 | 00 | | 8603H |
| 2 6 x 20 Roll Pin 9269 51 2 M20 x 55 Bolt 5 M8 x 20 Bolt A2500-03 52 1 1/2" Chain Half 5 M8 x 20 Bolt 8311H 53 1 1/2" Chain Half 5 8m Fender Washer 9032 1 1/2" Chain Join | pth Roc | Handle | A2500-02 | 50 | ∞ | M16 Nut 9161 | 61 |
| 1 4000 Leg Pivot Cover A2500-03 52 1 1/2" Chain Half 5 MB x 20 Bolt B311H 53 1 1/2" Chain Join 5 8mm Fender Washer 9032 1 1/2" Chain Join | oll Pin | | 9269 | 51 | 2 | | 8718H |
| 5 M8 x 20 Bolt B311H 53 1 1/2" Chain Join 5 8mm Fender Washer 9032 9032 9032 1 1/2" Chain Join | g Pivot | Cover | A2500-03 | 52 | ٦ | | ZCH1/2L |
| 2 Binn Fender Washer | Bolt | | 8311H | 53 | - | | ZCH1/2J |
| | nder W | asher | 9032 | | | | |
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| | | | | | | EXPLODED VIEW DRAWING | |
| DRAWN BY DATE: 1 | 3 | - U | | | | PRODUCT: 4000 28Run Base Frame & Components Parts | Components |
| DATE: 1 | | | | | | Phil.W | |
| | | ~ | | | | DATE: 17/07/2013 A2594-ASSY | 2/2 |



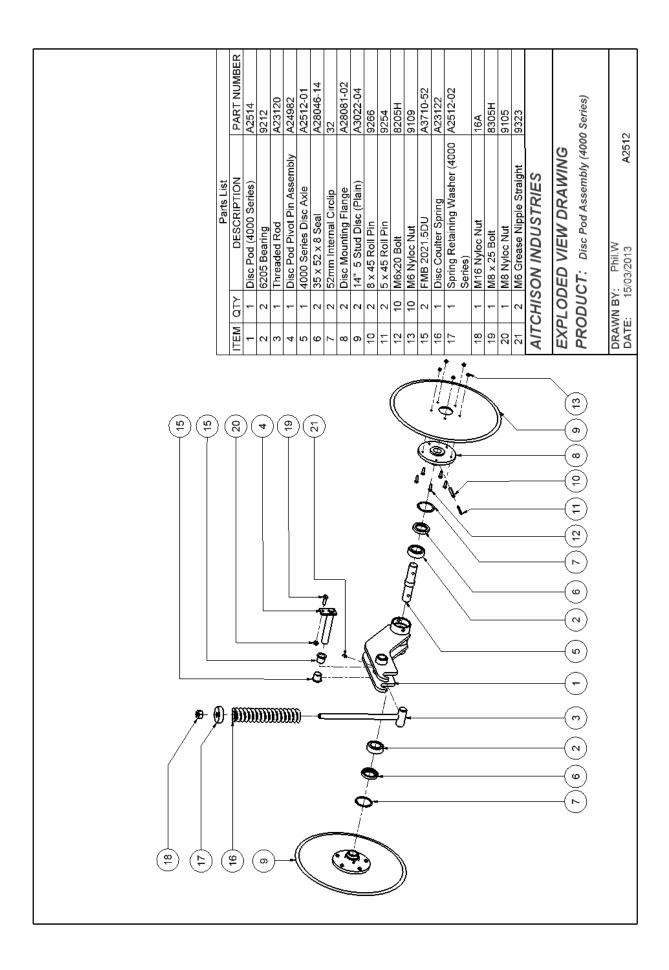
SEED & FERTILISER MODELS

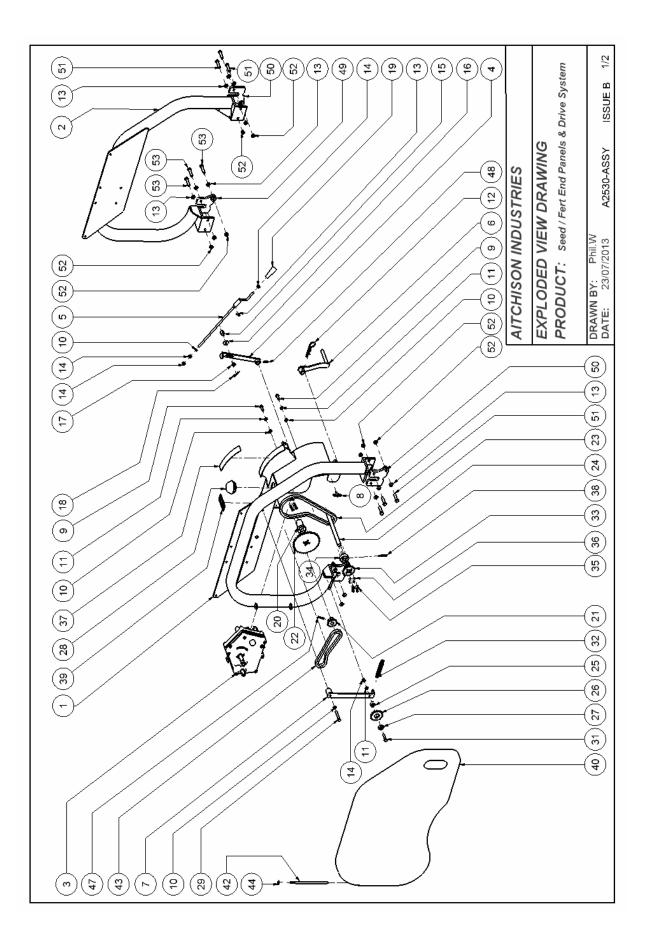


SEED ONLY MODELS

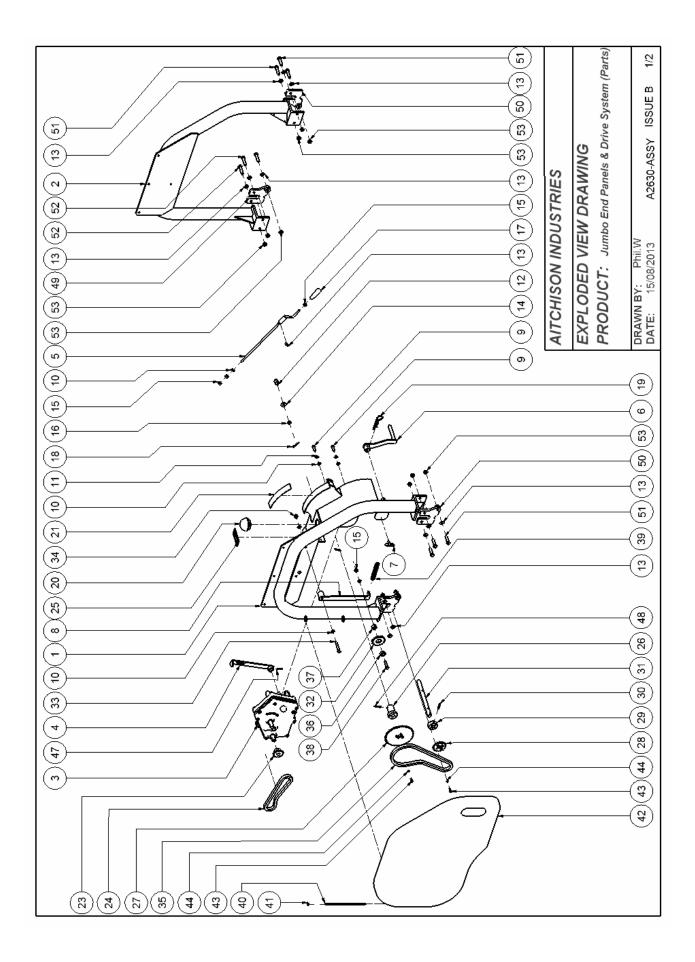
| | Parts List ITEM QTY DESCRIPTION PART NUMBER 1 1 MK3 Seed Only Coulter A28093 |
|------|---|
| | Assembly A3895 2 1 MK3 Replacable Boot A3895 3 1 MK3 Z5mm RH-DC Tine A3892L 4 1 MK3 25mm RH-DC Tine A3892R 5 1 MK3 Tine Clamp Casting A3896 6 1 65mm Saddle Clamp A3897 |
| | 6 1 65mm Saddle Clamp A3897 7 1 M16 x 120 Bolt 8610H 8 1 M16 x 60 Bolt 8604H 9 2 M12 x 60 Bolt 8528H 10 2 16mm Spring Washer 9061 11 2 M16 Nut 9161 |
| | 12 2 M12 Nyiloc Nut 9151 13 1 8 x 25 Roll Pin 9265 AITCHISON INDUSTRIES |
| 2 13 | EXPLODED VIEW DRAWING PRODUCT: MK3 Grassfarmer Tine Assembly Parts DRAWN BY: Phil.W MK3 Tine Assy LH: A28092L-ASSY DATE: MK3 Tine Assy RH: A28092R-ASSY |

| | - | | | A2512 | A23127 | A2646 & A2647 | A2513 | | A2510-01 | 9251 | 8510H | 9121 | 8710H | | | ter Kit Assembly | A2519-ASSY |
|--|----|----------------------|---|--|------------------|---------------|---------------------------|---|----------|------|-------|-------------------|-------|------|-----------------------|---|---|
| | - | ITEM QTY DESCRIPTION | - | 1.2 14 Disc Pod Assembly (4000 Series) | 2 1 Ratchet Link | - | 4 1 Head Stock Link Mount | | | ۰ N | 4 | 9 2 M20 NVICE NUT | 10 | CHIS | EXPLODED VIEW DRAWING | PRODUCT: 4000 28Run Disc Coulter Kit Assembly | DRAWN BY: Phil.W DATE: 27/08/2013 A2 |
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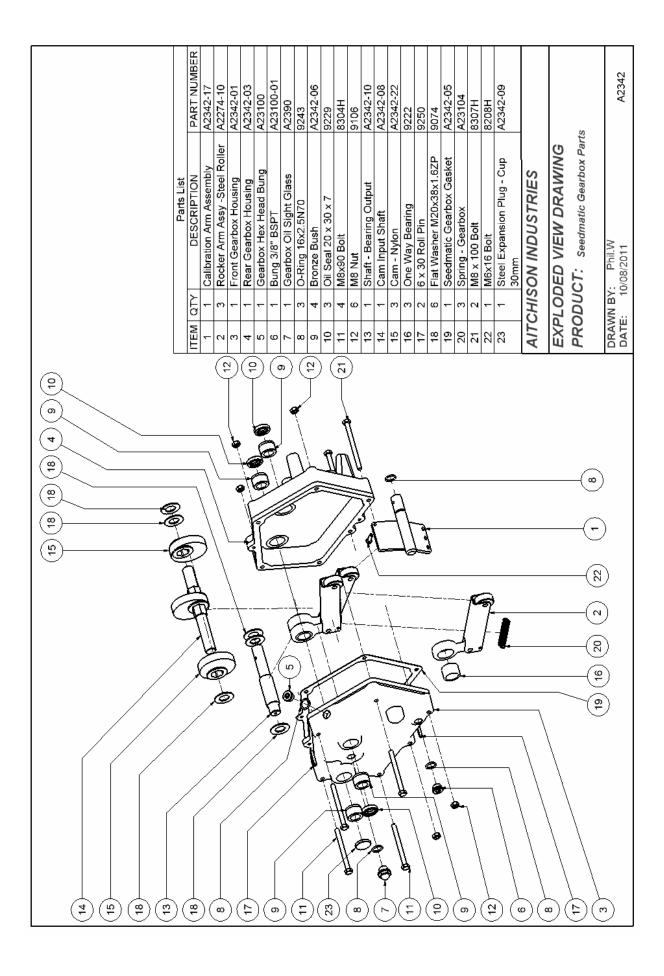


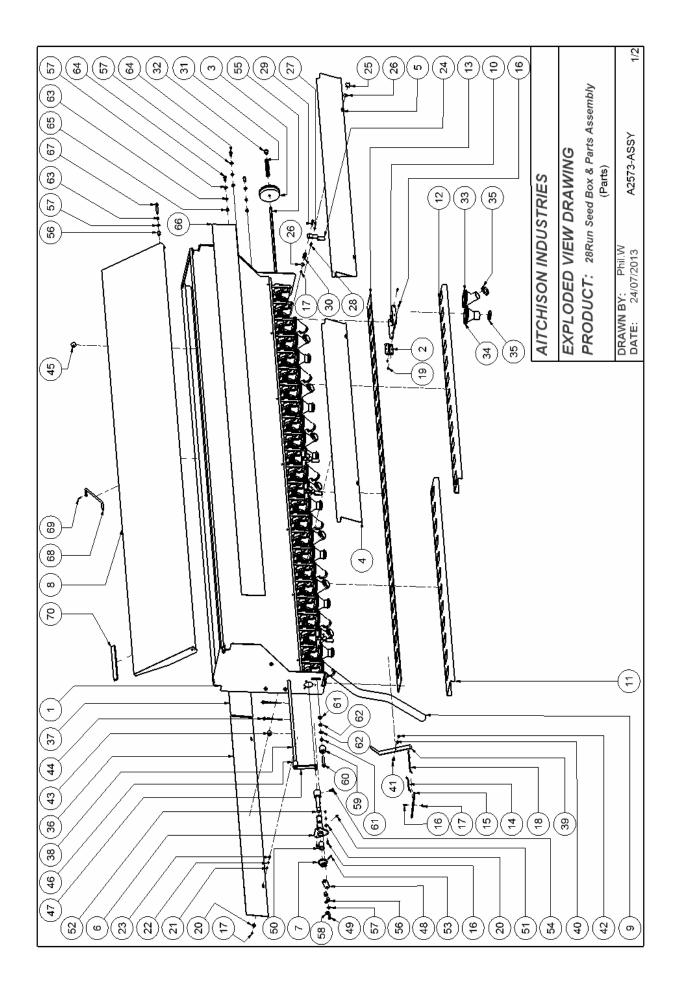


| Titell Off Exact Number Early Low Description Description <thdescription< th=""> Descripor <thdescriport<< th=""><th></th><th></th><th>Parts List</th><th></th><th></th><th></th><th>Parts List</th><th></th></thdescriport<<></thdescription<> | | | Parts List | | | | Parts List | |
|--|------|-----|---|-------------|--------------|-----|----------------------------------|----------------------|
| 1 4000 Seriel & Fert / Non-Dirind Frame Masemityly 20351 2 20 1 Mon 2 70 Bern Mon 2 70 Bern< | ITEM | QT√ | DESCRIPTION | PART NUMBER | ITEM | ΩT | DESCRIPTION | PART NUMBER |
| 1 Holio Socie 201 Mit Wyce (Mit Mither Assembly) 2032 201 Mit Wyce (Mither Assembly) 2032 201 Mit Wyce (Mither Assembly) 2032 201 Mit Wyce (Mither Assembly) 2033 11 Control Assembly 2033 11 Mit Wyce (Mither Assembly) 2033 201 2033 201 2033 201 2033 201 2033 201 2033 201 2033 201 2033 201 2033 201 201 2033 201 | 1 | - | 4000 Seed & Fert D-End Panel Assembly | A2531 | 28 | - | 65mm Plastic Cap | A3719-03 |
| 1 0Fferther (Control Calibration Pointer Assembly, Sector Calibratin Pointer Assembly, Sector Calibration Pointer Assem | 2 | - | 4000 Seed & Fert Non-D-End Panel Assembly | A2532 | 29 | ~ | M10 × 70 Bolt | 8423H |
| 1 Tearbox Samo Adjustor Lower Agempty ASYC-Ad Instruction 31 1 Note of Bing Bind Adjustor Lower Agempty Adjustor Lower Agempty Adj | m | - | GF/Roller Gearbox Assembly | A2342 | ဓ | ~ | M10 Nyloc Nut | 9142 |
| 1 Seed Algancy Series Accords | 4 | - | Gearbox Calibration Pointer Assembly | A3570-04 | 31 | ~ | M10 x 45 Bolt | 8404H |
| 1 1 2000 Gas 33 1 111 feed sprovide flows 5000 <i>J</i> ² 223 131 111 feed sprovide flows 5000 <i>J</i> ² 223 133 131 111 feed sprovide flows 5000 <i>J</i> ² 233 133 131 111 feed sprovide flows 5000 <i>J</i> ² 233 133 131 131 1300 Gas 131 13 | ß | - | Seed Adjustor Lever Assembly | A2333 | 32 | - | Seed Agitator Spring | A2338 |
| 1 1 M0 million 2033 3 1 Spin of the sensity 2033-01 2 1 M0 million Ferener 0 | 9 | - | Seed Calibration Handle | A230-25 | 33 | ~ | 17T Plate Sprocket 1/2" | A2347 |
| 1 108. Anti-Luce Fasterer 1253-107 35 6 Mix 20 SSG 5ap 5eewir 02071 02072 02071 02072 02072 02071 02072 02071 02071 02071 02071 02071 02071 02071 02071 02071 02071 02071 02072 02071 02072 02071 02072 02071 02072 02071 02072 02071 02072 02071 02072 02071 02072 02071 02072 02071 02072 02071 02072 02071 02072 02071 02072 02071 02072 02071 02072 02071 02072 | 7 | - | 4000 Gear Box Tensioner Arm Assembly | A2533 | 34 | - | Sprocket Boss 3000 ZP | A2343-01 |
| 3 MIX x 0 Bolt 9416H 36 6 Hom Syng Washer 9021 911 1 0 | ω | - | M8 Anti-Luce Fastener | A2821-07 | 35 | ω | M6 x 20 S/S Cap Screw | 8207S |
| 6 10 mm Frait Wather 9022 37 1 Centrol Cellart D000000 D000000 D000000 D000000 D00000 D000000 D0000000 D000000000000 D00000000000 | თ | ო | M10 x 30 Bolt | 8415H | 36 | œ | 6mm Spring Washer | 9021 |
| 1 5 Mm Cun 9041 38 1 b ex 90 R0 Fm 9021 | 10 | G | 10 mm Flat Washer | 9042 | 37 | ~ | Gearbox Calibration Decal | D3032 |
| 1 5mm R Clip 2889 39 1 Decal 4000 Rodent Stop 24001 20500 20001 20300 20001 20300 20001 20300 20001 20300 20001 20300 20001 20300 20001 20300 20001 20001 20300 20001 20300 20001 20300 20001 20300 20300 20001 20300 20001 20300 20001 203000 203000 200000 </td <td>1</td> <td>4</td> <td>10mm Spring Washer</td> <td>9041</td> <td>38</td> <td>~</td> <td>6 x 50 Roll Pin</td> <td>9262</td> | 1 | 4 | 10mm Spring Washer | 9041 | 38 | ~ | 6 x 50 Roll Pin | 9262 |
| 13 Tam Flat Washer 9051 40 1 4000 Seed & Fert Drive Cover 2050 do 1 Norve Colar 2144 41 1 400 Nu 41 400 Nu 1 Norve Colar 2337 42 1 400 Nu 400 Nu 41 400 Nu 1 Norve Colar 2333 42 1 400 Nu 41 10 Nu 1 Norve Colar 2335 42 1 400 States Washer 9160 2 Norve Colar 2333 43 1 100 States Washer 9160 3 Norve Lip Norve Colar 2335 46 2 1/2 Cala Hall Link 2550 1 Norve Lip 1 100 States Washer 9250 946 1 2050 1 1 100 States State 2335 48 2 1/2 Cala Hall Link 2550 1 1 1 1 400 States Masher 2550 1 2550 1 1 1 200 States Masher 2350 1 2550 1 1 1 1 1 1<00 States Masher | 12 | - | 5mm R Clip | 9289 | 39 | - | Decal 4000 Rodent Stop | D4001 |
| 4 MIO Mut 9141 41 Mon Mut 9106 1 Nivel Collat 2334 42 1 Mon Mut 2333-01 9105 1 MiO Fender Washer 9037 42 1 Mon Santow Washer 9035 82 1 Acconstruction 8330-07 8043 2333-01 9043 2333-01 2044 2333-01 2044 2333-01 2044 2333-01 2044 2333-01 2044 2050-01 2044 2050-01 2014 2050-01 20400-01 2050-01 | 13 | 13 | 12mm Flat Washer | 9051 | 4 | ~ | 4000 Seed & Fert Drive Cover | A2530-04 |
| 1 1 Wowie Collar 2334 42 1 4000 End Fanel Hunge Fun 2330.05 1 1 0frm H0 Fanel 037 43 1 1000 End Fanel Hunge Fun 2330.05 1 1 1 0frm H0 Fanel 037 43 1 1000 End Fanel Hunge Fun 2330.07 1 1 1 1 1000 End 2332.01 12 12 12 1 1 1000 End 2333.01 43 1 2000 End 2011.1 1 1 1000 End 2333.01 43 1 2001 End 2011.1 1 1 1000 Seaf Box Chain 2333.01 43 1 2000 End Panel Fines Assembly LH 2330.01 1 1 175 Sinceket TS Pieth Bose 2010 233 400 End Panel Fines Assembly LH 2330.01 1 1 1000 Seaf Box Chain 23350.01 23 1000 End Panel Fines Assembly LH 2350.01 1 1 1000 Seaf Box Chain 23350.01 23 2000 End Panel Fines Assembly LH 2350.01 1 1 1000 Seaf Box Chain 23350.01 21 12 12 2000 End Panel Fines Assembly LH 2350.01 1 1 11 | 14 | 4 | M10 Nut | 9141 | 41 | ~ | M8 Nut | 9106 |
| 1 M0 Fender Washer 9037 43 1 G to SB Drive Chain A2350.07 1 R0m HD Fal Washer 9034 44 1 R0 Slancev chain A2350.07 1 R0m HD Fal Washer 928 45 2 172 Chain John ZCH12J 1 Rank Clip A2332 46 2 127 Chain John ZCH12J 1 Rank Crip A23332 46 2 127 Chain John ZCH12J 1 Rank Crip A2339-01 48 1 6 X-0 Rain ZCH12J 1 Rank Crip A2339-01 48 1 6 X-0 Rain ZCH12J 1 Rank Crip A2339-01 49 1 6 X-0 Rain ZCH12J 1 400 Grant Banck Criain A2330-01 21 M12 X-05 Bokt A2330-10 ZCH12J 1 400 Grant Banck Banck Criain A2330-01 21 M12 X-05 Bokt A2330-11 1 400 Grant Banck Banck Criain A2330-11 < | 15 | - | Swivel Collar | A2334 | 42 | ~ | 4000 End Panel Hinge Pin | A2530-05 |
| 1 10mm HD Flat Washer 9040 14 1 Mit O Startock Washer (Capped) 9045 1 2014 9045 1 9045 1 9045 1 9045 1 9045 1 9045 1 9045 1 1 9045 1 1 9045 1 2014 1 2014 1 2014 2014 1 2014 1 2014 1 2014 | 16 | - | M10 Fender Washer | 9037 | 43 | ~ | GB to SB Drive Chain | A2530-07 |
| 1 7mm R Clp 9282 45 2 1/2* Chain Haff Link 2CH12L 1 1 70mm Sprovede 105 A2332-01 47 2 1/2* Chain Haff Link 2CH12L 1 170m Sprovede 105 A2339-01 47 2 1/2* Chain Johner 2CH12L 1 13 Sprovede 102 A2339-01 47 1 5 1/2* Chain Johner 2CH12L 1 13 Sprovede 102 A2339-01 48 1 6 x 40 Roll Pin 9250 1 4000 Gaer Bax Chain A2330-01 51 6 1/2 x 50 Boht A2330-10 9250 1 4000 Gaer Bax Chain A2330-01 53 6 M12 x 50 Boht A2330-10 9250 1 4000 Gaer Bax Chain A2330-01 A2330-01 802H A2330-10 1 177 Pite Sproved Tanioner A2330-01 A102 Conoloch Mut A2330-11 A2330-10 1 6200 Baserter A2330-01 53 1/2 M12 x 500 Boht A2330-10 1 | 17 | - | 10mm HD Flat Washer | 9040 | 44 | ~ | M10 Starlock Washer (Capped) | 9045 |
| 1 Paratic Kindo Long A2332 46 2 1/2" Chain Joiner ZCH1/2.1 1 70mn Sprotekt Bloss A2070-01 47 2 6 × 40 Bill Pin 9251 1 71m Sprotekt Diss 2010 A2334-01 48 1 400 Gaer Box Chain 9251 1 38T Plate Sprotekt 12* A2334-01 48 1 4000 Eaer Box Chain 9251 1 4000 Gaer Box Chain A2330-05 50 1 4000 Eaer Box Chain 9250 1 4000 Gaer Box Chain A2530-05 52 12 M12 x 55 Bokt 9150 1 177 Plate Sproteir A2550-01 52 12 M12 x 55 Bokt 9150 1 177 Plate Sproteir Tensioner A2550-01 52 12 A2550-01 9150 1 177 Plate Sproteir Tensioner A2550-01 32 6 M12 x 55 Bokt 9150 1 177 Plate Sproteir Tensioner 9219 11 2000 Eacr Plate | 18 | - | 2mm R Clip | 9282 | 45 | ~ | 1/2" Chain Half Link | ZCH1/2J |
| 1 70mm Sprocket Boss 2007-0-1 47 2 6 × 40 Roll Pin 9250 | 19 | - | Plastic Knob Long | A2332 | 46 | 2 | 1/2" Chain Joiner | ZCH1/2L |
| 1 1 6 × 30 Rel Pin 233 200 233 201 2230 1 381 Plate Sprocket 1/2 Pitch Boss 2010 23344 48 1 4000 End Panel Brace Assembly Lin 2530 1 1 1000 Gend Panel Brace Assembly Lin 2330-01 51 6 M12 × 50 Bolt 2530-11 2530-11 1 177 Plate Sprocket Tensioner 2530-02 52 12 M12 × 50 Bolt 2500 1 2000 1 177 Plate Sprocket Tensioner 2530-02 52 12 M12 × 55 Bolt 2500 1 2500 1 177 Plate Sprocket Tensioner 2330-01 3 6 M12 × 55 Bolt 2500 210 1 2000 Bearling 219 2330-01 2350-01 2500 210 2500 1 2000 Bearling 219 2230-01 2230-01 2350-01 2500 210 2500 1 2000 Bearling 21 2230-01 21 2230-01 2500 21 2500 1 2000 Bearling 21 212 212 212 212 | 20 | - | 70mm Sprocket Boss | A2070-01 | 47 | 0 | 6 × 40 Roll Pin | 9751 |
| 1 381 Plate Sproket IP 2000 End Panel Brace Assembly LH 2000 End Panel Brace Assembly RH 2000 End Panel Brace Assempter Astrend Assematere Assembly RH 2000 End Pane | 21 | | 13T Sprocket 1/2" Ditch Ross 2010 | A7330-01 | Υ | 1 - | 6 × 30 Poll Din | 0250 0250 |
| 1 1 2000 Great Sprotext LT Account Account <td>- 5</td> <td>-</td> <td></td> <td></td> <td>P</td> <td></td> <td></td> <td>9600 2000 10</td> | - 5 | - | | | P | | | 9600 2000 10 |
| 1 4000 Gear Box Chain A2530-05 50 5 4 000 End Brace Assembly IAH A2530-01 51 5 4 000 Seaf End Brace Assembly IAH A2530-01 51 1 1177 Plate Sprocket Tensioner A2530-01 53 6 M12 x 55 Bott A2530-01 6150 A250 A250 <td>3</td> <td>-</td> <td>381 Plate Sprocket ZP</td> <td>A2344</td> <td>49</td> <td>-</td> <td>4000 End Panel Brace Assembly LH</td> <td>A2530-10</td> | 3 | - | 381 Plate Sprocket ZP | A2344 | 49 | - | 4000 End Panel Brace Assembly LH | A2530-10 |
| 1 4000 Seed&Fert Lay Shaft A2330-01 51 6 M12 × 56 Bolt B502H 1 1 1000 Seed&Fert G-B Tensioner A2330-02 52 12 M12 × 56 Bolt 9150 1 1 177 Plate Spacer 22350-01 51 8 12 × 55 Bolt 9150 200 Bearing 9219 9219 9219 9219 9150 1 6200 Bearing 9219 9219 9150 1 7 7 7 9150 1 6200 Bearing 9219 9219 9219 | 23 | - | 4000 Gear Box Chain | A2530-06 | 20 | m | 4000 End Panel Brace Assembly RH | A2530-11 |
| 1 4000 Seed&Fert G-B Tensioner 2530-01 53 1 2000 Seed&Fert G-B Tensioner 9150 1 177 Plate Sproket Tensioner 2330-01 53 6 M12 x55 Boit 8512H 1 6200 Bearing 9219 1 A2350-01 53 6 M12 x55 Boit 8512H 1 6200 Bearing 9219 1 A2350-01 53 6 100 X55 Boit 8512H 1 6200 Bearing 9219 1 A17 CHISON INDUSTRIES 8512H 1 EXPLODED VIEW DRAWING 1 | 24 | - | 4000 Seed&Fert Lay Shaft | A2530-01 | ر | ი | M12 × 50 Bolt | 8502H |
| 1 17T Plate Sprocket Tensioner A2350-01 53 6 M12 x 55 Bolt 8512H 1 6200 Bearing 9219 A A 8512H 8512H 1 6200 Bearing 9219 A A 8512H 8512H 1 6200 Bearing 9219 A A 8512H 8512H 1 A A A A A 8512H 8512H 1 A | 25 | - | 4000 Seed&Fert G-B Tensioner Spacer | A2530-02 | 52 | 12 | M12 Conelock Nut | 9150 |
| 1 E200 Bearing 219 2019 210 2010 211 2010 211 2010 211 2010 211 2010 211 2010 211 2010 211 2010 212 2010 213 2010 214 2010 215 2010 216 2010 217 2010 218 2010 | 26 | ~ | 17T Plate Sprocket Tensioner | A2350-01 | 53 | 9 | M12 x 55 Bolt | 8512H |
| IN INDUSTRIES D VIEW DRAWING T: Seed / Fert End Panels & Drive System (Part Numbers) Phil.W Phil.W A2530-ASSY | 27 | - | 6200 Bearing | 9219 | | | | |
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| (Part Numbers) Phil.W A2530-ASSY 7/2013 A2530-ASSY | | | | | | | PRODUCT: Seed / Fert End Pai | inels & Drive System |
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| 07/2013 A2530-ASSY | | | 7 | | | | Phil.W | |
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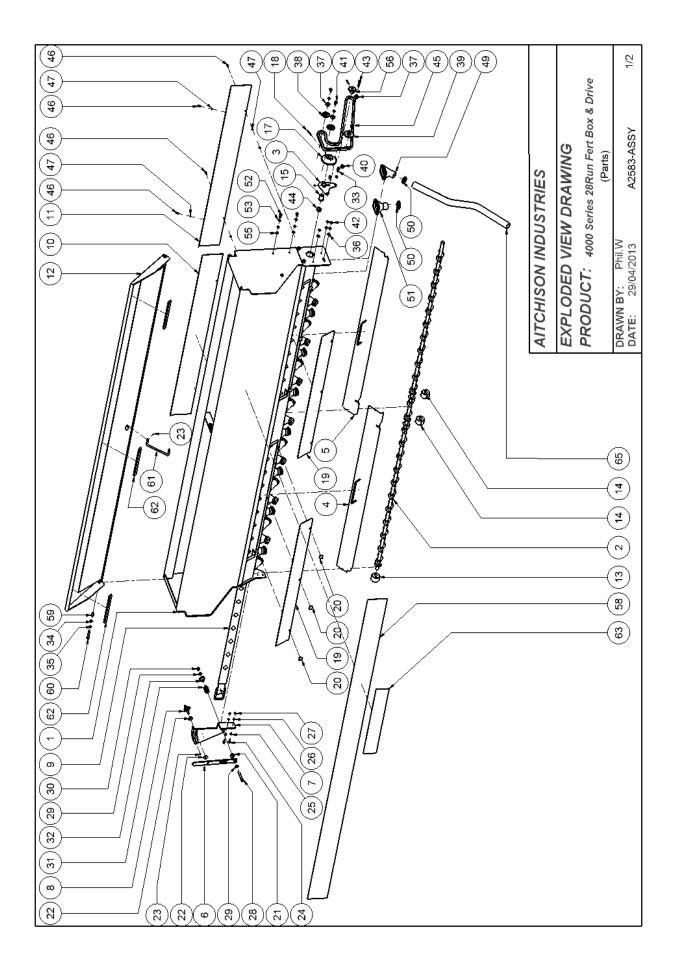


| ITEM Off Description Data Display Display <thdisplay< th=""> <thdisplay< th=""> <thdisplay< th=""><th></th><th></th><th>Parts List</th><th></th><th></th><th></th><th>Parts List</th><th></th></thdisplay<></thdisplay<></thdisplay<> | | | Parts List | | | | Parts List | |
|--|--------|-----|---------------------------------------|-------------|------|--------|-------------------------------------|-------------------------|
| 1 1 0000 Jinno Dive End Panel Assembly A2832 28 1 TrT Plate Spron 1 1 6FRolic End Panel Assembly A2832 28 1 Sproten Boss 1 1 6FRolic End Panel Assembly A2832 20 1 Sproten Boss 1 1 6FRolic End Panel Assembly A2832 20 1 A000 Jumbo Lang 1 1 6FRolic End Panel Assembly A2333 23 1 1 400 Use Panel Assembly 5eed Galination Handie A2333 3 1 A00 Use Panel Assembly A2333 3 1 4 4 4 4 4 4 4 4 4 1 4 | TEM | QTY | DESCRIPTION | PART NUMBER | ITEM | | DESCRIPTION | PART NUMBER |
| 1 1 2000 Jumbo LdDine End Parel Assembly 26522 29 1 Sprotock Bossis 1 6 FRolle Geerbox Assembly 2333 23 1 10 v0 Jumbo LdDine End Parel Assembly 1 1 6 FRolle Geerbox Assembly 23333 23 1 10 v0 Jumbo LdDine End Parel Boso 1 1 6 Fantor Califoration Point Assembly 23333 23 1 10 v0 Jumbo LdDine End Parel Boso 1 1 6 Fantor Califoration Point Assembly 23333 23 1 10 v0 Job LdDine End Parel Boso 2 1 1 6 Fantor Value 23333 23 1 10 v0 Job Ch 3 10 v0 Sole Boso 23 1 10 v0 Sole Geerbox 23333 23 1 100 v0 Socie Ch 3 10 v0 v0 Socie Ch 23 23 1 100 v0 Socie Ch 200 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 20 | - | - | 4000 Jumbo Drive End Panel Assembly | A2631 | 28 | Ļ | 17T Plate Sprocket 1/2" | A2347 |
| 1 GFRolle Gearbox Assembly 2331 30 1 6×50 Roll him 1 1 Gerkour Calibration Pointier Assembly 2333 32 1 7000 Hum 1 1 Seed Adjustion Pointier Assembly 2333 32 1 700 Hum 1 1 Seed Adjustion Handle 2320.25 33 1 400 Vac Nut 3 M10 x 30 Boit 2322.107 36 1 400 Gear Bos 3 M10 x 30 Boit 2321.407 33 1 400 Gear Bos 4 A00 Gear Bos 2323.43 36 1 400 Gear Bos 1 M10 Find Washer 2037 41 1 400 Hum Dia 1 M10 Fender Washer 2031 40 1 400 Hum Dia 1 M10 Fender Washer 2037 41 1 200 Hum Dia 1 100m Hu M10 Fender Washer 2037 41 1 200 Hum Dia 1 100m Hu 1 100m Hu 2000 Gear Bos <td>2</td> <td>-</td> <td>4000 Jumbo N-Drive End Panel Assembly</td> <td>A2632</td> <td>29</td> <td>-</td> <td>Sprocket Boss 3000 ZP</td> <td>A2343-01</td> | 2 | - | 4000 Jumbo N-Drive End Panel Assembly | A2632 | 29 | - | Sprocket Boss 3000 ZP | A2343-01 |
| 1 Gearbox Calibration Pointer Assembly A3570-04 31 1 4000 Jumbo La 1 Seed Calibration Forner Assembly A303-35 32 1 1000 Countrol 1 Seed Calibration Event Assembly A30-30 32 1 M00 Note Nutrol 1 Seed Calibration Fandle A30-30 35 1 M00 Note Nutrol 5 Seed Calibration Fandle A30-30 35 1 M00 Note Nutrol 3 M10 x 30 Boit A30-30 35 1 M00 Gear Box A30-45 Boit 4 1000 Gear Box M10 Feel Washer 9041 43 1 4000 Gear Box 13 100 Feel Washer 9042 43 1 4000 Lambo Dr 1 100 Feel Washer 9031 41 1 1000 Jumbo Dr 1 100 Feel Washer 9042 43 1 1000 Jumbo Dr 1 100 Feel Washer 9041 43 8 6051 Cor 1 100 Feel Washer 2334 43 | e | - | GF/Roller Gearbox Assembly | A2342 | 8 | ~ | 6 x 50 Roll Pin | 9262 |
| 1 Seed Adjustor Lever Assembly 22333 32 1 1717 Plate Sprot 1 Beed Adjustor Lever Assembly 22333 35 1 MI0 Vioo Null 1 Beed Adjustor Lever Assembly 22333 35 1 MI0 Vioo Null 1 Admituse Frankine 22333 35 1 4000 Gear Box 5 MI0 Xasher 3415H 36 1 4000 Gear Box 6 10mm Spring Washer 36415H 38 1 4000 Gear Box 13 12mm Flat Washer 9041 38 1 4000 Gear Box 13 12mm Flat Washer 9043 38 1 4000 Flat Plate 13 12mm Flat Washer 9041 38 1 4000 Flat Plate 13 17mm Flat Washer 9037 44 1 400 Flat Plate 13 17mm Flat Washer 9037 44 1 1 2006 Flat Plate 1 10mm MD Flat Washer 9141 42 1 1000 Flat Plate 13 10mm MD Flat Washer 9141 42 1 1000 Flat Plate 1 10mm MD Flat Washer 914 43 8 1000 Flat Plate 1 10mm MD Flat Washer | 4 | - | Gearbox Calibration Pointer Assembly | A3570-04 | 31 | ~ | 4000 Jumbo Lav Shaft | A2630-01 |
| 1 Seed Calibration Handle A230-25 33 1 M10 x 70 Boit 1 100 Gare Tox Tensioner Am Assembly A2231-37 36 1 A000 Gare Tox 3 M10 x 30 Boit 3 M10 x 30 Boit 36 1 2000 Gare Tox 4 1 100 Gare Tox Tensioner Am Assembly 8415H 36 1 2000 Gare Tox 4 1 11 Mis Anther 9041 38 1 4000 Eart Tox 5 1 10mm Spring Washer 9041 38 1 4000 Eart Tox 5 1 10mm Spring Washer 9041 43 4 1 4000 Eart Tox 1 1 10mm King 2333-01 42 4 1 4000 Eart Tox 1 1 10mm King 2333-01 4 1 1 12 1000 Marc 1 1 1 2333-01 4 8 6 1 1 1 1 1 1 1 <td>5</td> <td>-</td> <td>Seed Adjustor Lever Assembly</td> <td>A2333</td> <td>32</td> <td>~</td> <td>17T Plate Sprocket Tensioner</td> <td>A2350-01</td> | 5 | - | Seed Adjustor Lever Assembly | A2333 | 32 | ~ | 17T Plate Sprocket Tensioner | A2350-01 |
| 1 MB Arth-Luce Fastener A2821-07 34 1 M0 Nyloc Nut 3 1 4000 Gaar Box 41514 35 1 4000 Gaar Box 3 10 mm Flat Washer 9041 38 1 4000 Gaar Gox 1 10 mm Flat Washer 9041 38 1 4000 Gaar Gox 1 1 Nivel Collar 9041 38 1 4000 Gaar Gox 1 1 Nivel Collar 9037 40 1 40 1 1 1 Nivel Collar 9037 43 8 M6x 20 SIS Ca 9037 43 8 M6x 20 SIS Ca 1 1 Norm HD Flat Washer 9040 43 47 1 4000 Gaar Cap 1 1 1 2000 Stand Man 1 1 Orm HD Flat Washer 9140 42 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 < | 9 | - | Seed Calibration Handle | A230-25 | ŝ | ~ | M10 x 70 Bolt | 8423H |
| 1 1 4000 Gear Box Tansioner Arm Assembly A2533 35 1 4000 Gear Box 5 N IV x 300 Bolt Balthi Balthi 36 1 4000 Gear Box 6 10 mm Flat Washer 9041 36 1 4000 Seed8fing 13 Swirel Collar 9041 38 1 4000 seed8fing 14 M10 Frat Washer 9041 38 1 4000 seed8fing 13 Swirel Collar 9031 41 1 4000 seed8fing 14 M10 Nutr 9141 40 1 4000 seed8fing 15 Swirel Collar 9031 41 1 4000 star Cap 1 M10 Nutr 9141 42 1 4000 star Cap 1 Dom Relian 9031 9333 47 1 4000 star Cap 1 Emm R Clip 9282 43 8 1 1000 unb Dr 1 Bern Masher 9333 47 1 6 400 star Cap 1 Sim R Clip 9282 43 8 6 1 127. Chain Julio 1 Sim R Clip 135 Sim R Clip 9336 43 1 6 1 1000 | 7 | - | M8 Anti-Luce Fastener | A2821-07 | 34 | - | M10 Nyloc Nut | 9142 |
| 3 M10 x 30 Bolt 36 1 6220 Bearing 4 10 mm Spring Washer 9041 37 1 4000 Eard Bane 13 12mm Spring Washer 9051 40 1 4000 Eard Bane 13 12mm Spring Washer 9051 40 1 4000 Eard Bane 13 12mm Flat Washer 9051 40 1 4000 Eard Bane 14 M10 Fould Washer 9051 40 1 4000 Eard Bane 1 10mm HD Flat Washer 9051 41 4000 Eard Bane 9051 Cab 1 10mm HD Flat Washer 9141 42 41 4000 Eard Bane 1 10mm HD Flat Washer 9233 43 8 66 1 1/2" Chain Juli 1 10mm HD Flat Washer 9303 43 8 6000 Fond 9 4000 Eard Bane 1 1/2" Chain Juli 1 15mm R Clip 5mm R Clip 93333-01 50 3 4000 Eard Bane 1 1/2" Chain Hai 1 | ω | - | 4000 Gear Box Tensioner Arm Assembly | A2533 | 35 | ~ | 4000 Gear Box Chain | A2530-06 |
| 6 10 mm Flat Washer 9042 37 1 4000 Seed&Fe 7 12 Wind Sping Washer 9041 38 1 Miox Seed&Fe 13 12mm Flat Washer 9051 40 1 4000 Lind 13 12mm Flat Washer 9051 40 1 4000 Lind 13 12mm Flat Washer 9051 40 1 400 Lind 1 M10 Nut 910 42 1 4000 End Pane 1 10 Dimm DF 914 42 1 400 Lind 1 10 Simm Platic Kinob Long 9233 45 4 1010 Min 1 1 Bastic Kinob Long 9233 47 1 600 End Pane 1 1 Bastic Kinob Long 9233 45 1 17 7 1 1 Bastic Kinob Long 9233 45 1 17 600 End Pane 1 1 Bistic Kinob Long 9233 45 1 17 7 1 600 End Pane 1 1 35mcKet 112* Pitch Boss 201D 2339-01 53 49 1 17 7 1 1 35mcKet 105p 13 131 Spicoket 112* Pitch Boss 201D 53 400 End Pane 1 | 6 | m | M10 x 30 Bolt | 8415H | 36 | ~ | 6200 Bearing | 9219 |
| 4 10mm Spring Washer 9041 38 1 M10 x45 Bolt 1 1 2mvrel Collar 9037 40 1 4000 End Pare 1 1 1 2mvrel Collar 9037 41 1 4000 End Pare 1 1 1 0mm Half 9037 41 1 4000 End Pare 1 1 0mm HD Flat Washer 9037 41 1 4000 End Pare 1 1 0mm HD Flat Washer 9037 41 1 4000 End Pare 1 1 0mm HD Flat Washer 9037 41 1 4000 End Pare 1 1 0mm HD Flat Washer 9037 41 4 400 Long 1 1 1 2mm R Clip 9282 45 1 1/2° Chain Half 1 1 2mm R Clip 9232 45 1 1/2° Chain Half 1 1 85mm R Clip 9232 45 1 1/2° Chain Half 1 1 85mm R Clip 9233 46 1 1/2° Chain Half 1 1 85mm R Clip 9233 46 1 1/2° Chain Half 1 1 85mm R Clip 9333 46 1 1/2° Chain Half 1 1 85mr Clip 85 Stocket 1/2° 13339 1 1000 End <td>10</td> <td>ю</td> <td>10 mm Flat Washer</td> <td>9042</td> <td>37</td> <td>-</td> <td>4000 Seed&Fert G-B Tensioner Spacer</td> <td>A2530-02</td> | 10 | ю | 10 mm Flat Washer | 9042 | 37 | - | 4000 Seed&Fert G-B Tensioner Spacer | A2530-02 |
| 1 Swirel Collar A2334 39 1 Seed Agitator S 13 12m Flat Washer 9051 40 1 4000 End Pane 1 10mm HD Flat Washer 9051 40 1 4000 End Pane 1 10mm HD Flat Washer 9051 41 1 4000 End Pane 1 10mm HD Flat Washer 9040 43 8 M6 x 20 SIS Ca 1 10mm HD Flat Washer 9040 43 8 M6 x 20 SIS Ca 1 10mm HD Flat Washer 9040 43 8 M6 x 20 SIS Ca 1 10mm HD Flat Washer 9040 43 47 1 6000 Jumbo Dn 1 2mm R Clip 9232 45 1 1077 Chain Juli 1 2mm R Clip 9230 46 1 1127 Chain Juli 1 2mm R Clip 9233 47 1 6 4000 End Pane 1 13 Stroket 127 A300 Rodent Stop A233-01 50 49 1 1000 End Pane 1 38 Plate Sproket 127 A300 Rodent Stop A300 End Pane 1 1000 Stock 12 1 1000 End Pane 1 38 Plate Sproket 12P A233-01 51 6 M12 x | 11 | 4 | 10mm Spring Washer | 9041 | 38 | - | M10 × 45 Bolt | 8404H |
| 13 12mm Flat Washer 9051 40 1 4000 End Pane 1 M10 Nut 9140 43 8 M6x 20 SIS Ca 1 10mm HD Flat Washer 9040 43 8 M6x 20 SIS Ca 1 1 20mm D flat Washer 9040 43 8 M6x 20 SIS Ca 1 1 20mm HD Flat Washer 9040 43 8 M6x 20 SIS Ca 1 1 20mm Plastic Knob Long 22332 44 8 6mm String Washer 1 1 20mm R Clip 9282 46 1 1/2" Chain half 1 1 20mm R Clip 9283 47 1 6x 30 Roll Pin 1 1 50mm R Clip 9233 47 1 6x 40 Roll Pin 1 1 131 Sprooket 1/2" Pitch Boss 2010 A2339-01 50 3 4000 End Pane 1 131 Sprooket Boss 2010 A2339-01 51 6 M12 x 55 Bolt 1 131 Sprooket Boss 20001 52 6 M12 x 55 Bolt 1 1 7 1 2000 End Pane 1 1 7 1 2 6 1 1 7 | 12 | - | Swivel Collar | A2334 | 39 | ~ | Seed Agitator Spring | A2338 |
| 1 M10 Fender Washer 9037 41 1 M10 Star Cap 4 M10 Nut 9141 42 1 400 Junbo Dr 1 Plastic Knob Long 9332 43 8 6mm Sz03/S Cap 1 Plastic Knob Long 9282 45 1 1/2" Chain Half 1 Zmm R Clip 9282 45 1 1/2" Chain Half 1 Zmm R Clip 9282 45 1 1/2" Chain Half 1 Zmm R Clip 9282 45 1 1/2" Chain Half 1 Zmm R Clip 9282 45 1 1/2" Chain Half 1 Smm R Clip 9282 48 2 400 End Pane 1 Smm R Clip 9282 48 1 1/2" Chain Half 1 Beathor Callbration Decal 9337/19-03 47 1 400 End Pane 1 I Beathor Callbration Decal 9106 26 89 6 1/2" Chain Half 1 I Sproket 1/2" Pitch Boss 2010 A337/19-03 47 1 4000 End Pane 1 I Sproket 1/2" Pitch Boss 2010 A231 23 43 1 4000 End Pane 1 I | 13 | 13 | 12mm Flat Washer | 9051 | 4 | ~ | 4000 End Panel Hinge Pin | A2530-05 |
| 4 M10 Nut 9141 42 1 4000 Jumbo Dr 1 10mm HD Flat Washer 9040 43 8 M6 x 20 SIS Ga 1 1 Pastic Knob Long 9240 43 8 M6 x 20 SIS Ga 1 1 Zano 2233 45 1 1/2" Chain Julin 1 2mm R Clip 9289 46 1 1/2" Chain Julin 1 5mm R Clip 9289 46 1 1/2" Chain Julin 1 5mm R Clip 9239-01 50 3 4000 End Pane 1 1 Gantox calibration Decal 913032 48 1 1/2" Chain Julin 1 1 Gantox calibration Decal 91033 46 1 1/2" Chain Hall 1 1 15 Mout 2533-01 50 6 M12 x 50 6 1 13 13 13 14000 53 6 M12 x 50 6 1 1 70m < | 14 | - | M10 Fender Washer | 9037 | 4 | ~ | M10 Star Cap | 9045 |
| 1 10mm HD Flat Washer 9040 43 8 M6 x 20 s/S Ca 1 Plastic Knob Long 2232 44 8 6mm Sping Wig 1 5mm R Clip 2282 45 1 1/2" Chain Julif 1 5mm R Clip 2282 45 1 1/2" Chain Julif 1 65mm Plastic Cap 2282 45 1 1/2" Chain Julif 1 65mm Plastic Cap 2333-01 50 47 1 6 x 30 Rol Pin 1 65mm Plastic Cap 2333-01 50 47 1 6 x 30 Rol Pin 1 65mm Plastic Cap 2333-01 50 48 2 6 x 40 Rol Pin 1 108 Nu 11 135 Rpocket 1/2" Pitch Boss 201D 2333-01 50 48 2 6 x 40 Rol Pin 1 108 Nu 8100 Rolent Stop 2339-01 50 48 2 6 x 40 Rol Pin 1 11 Decal 4000 Rolent Stop 2339-01 53 42 6 12 × 55 Bolt 1 1 1 1 1 1 2 6 12 × 55 Bolt 1 1 38T Plate Sprocket ZP A344 1 12 12 12 | 15 | 4 | M10 Nut | 9141 | 42 | ~ | 4000 Jumbo Drive Cover | A2630-02 |
| 1 Plastic Knob Long 44 8 6mm Spring Wu 1 2mm R Clip 9282 45 1 1/2" Chain Julin 1 1 5mm R Clip 9282 45 1 1/2" Chain Julin 1 1 55mm R Clip 9283 46 1 1/2" Chain Julin 1 1 55mm R Clip 3719-03 47 1 1/2" Chain Julin 1 1 55mm R Clip 37319-03 48 2 6 x 40 Roll Pin 1 1 16 57 49 1 4000 End Pane 1 1 13 57 6 M12 x 50 Buli 1 1 1 200 Rold Pane 42339-01 53 12 M12 x 50 Buli 1 1 1 21 55 6 M12 x 50 Buli 12 12 734 1 331 Plate Sprocket LP 2334 2334 2334 412 12 70 6 M12 x 50 Buli 11 1 331 Plate Sprocket ZP 2334 2334 2334 12 | 16 | - | 10mm HD Flat Washer | 9040 | 43 | ω | M6 x 20 S/S Cap Screw | 8207S |
| 1 2mm R Clip 9282 45 1 1/2" Chain Half 1 5mm R Clip 9289 46 1 1/2" Chain Join 1 1 Gearbox Calibration Decal 9289 47 1 6 40 1 1/2" Chain Join 1 1 Gearbox Calibration Decal 9306 49 1 6 40 1 4000 End Pane 1 1 13T Sprocket 1/2" Pitch Boss 20ID A2339-01 50 3 4000 End Pane 1 1 13T Sprocket 1/2" Pitch Boss 20ID A2339-01 50 5 6 M12 x 56 Boit 1 1 13T Sprocket 1/2" Pitch Boss 20ID A2330-01 53 1 M12 x 56 Boit 1 1 1 Decal 4000 Roudent Stop A2330-01 53 1 M12 x 56 Boit 1 36T Plate Sprocket 12P A2374 53 1 M12 x 56 Boit 1 36T Plate Sprocket ZP A2344 A2344 4 1 1 | 17 | - | Plastic Knob Long | A2332 | 44 | œ | 6mm Spring Washer | 9021 |
| 1 5mm R Clip 9289 46 1 1/2" Chain Join 1 65mm Plastic Cap 83719-03 47 1 6 × 30 Roil Pin 1 1 68mm Plastic Cap 9106 48 2 6 × 40 Roil Pin 1 1 8000 48 48 2 6 × 40 Roil Pin 1 1 137 Sprocket 1/2" Flich Boss 20ID A2339-01 50 3 4000 End Pane 1 1 133 Sprocket 1/2" Flich Boss 20ID A2339-01 51 6 M12 × 55 Boit 1 1 2000 Rodent Stop A2330-07 51 6 M12 × 55 Boit 1 1 2000 Rodent Stop A2330-01 53 12 M12 × 55 Boit 1 20m Sprocket Boss A2334 A2334-01 53 12 M12 × 55 Boit | 18 | - | 2mm R Clip | 9282 | 45 | ~ | 1/2" Chain Half Link | ZCH1/2-L |
| 1 65mm Plastic Cap A3719-03 47 1 6 x 30 Roll Pin 1 Gearbox Calibration Decal D3032 48 2 6 x 40 Roll Pin 1 M8 Nut 9106 49 1 4000 End Pane 1 1 131 Sporoket 112" Pitch Boss 20ID A2339-01 50 3 4000 End Pane 1 1 131 Sporoket 112" Pitch Boss 20ID A2339-01 55 6 M12 x 50 Boit 1 1 1 Consolet 112" Pitch Boss 20ID A2339-01 53 6 12 x 50 Boit 1 1 Decal 4000 Rodent Stop A20070-01 53 12 M12 x 50 Boit 1 1 T0mm Sprocket Boss A20070-01 53 12 M12 x 50 Boit 1 38T Plate Sprocket ZP A2344 A2344 A2344 | 6 0 | - | 5mm R Clip | 9289 | 46 | ~ | 1/2" Chain Joiner | ZCH1/2-J |
| 1 Gearbox Calibration Decal D3032 48 2 6 x 40 Roll Pin 1 106 49 1 4000 End Pane 1 13T Sproket 1/2" Pitch Boss 20ID A2339-01 50 3 4000 End Pane 1 13T Sproket 1/2" Pitch Boss 20ID A2530-07 51 6 M12 x 55 Bolt 1 1 CB to SB Drive Chain A2530-07 53 12 M12 x 55 Bolt 1 1 Com Sproket Boss A2001 53 12 M12 x 55 Bolt 1 1 Tomm Sproket Boss A2001 53 12 M12 x 55 Bolt 1 38T Plate Sproket Boss A2001 53 12 M12 x 55 Bolt | 20 | - | 65mm Plastic Cap | A3719-03 | 47 | ~ | 6 x 30 Roll Pin | 9250 |
| 1 M8 Nut 9106 49 1 4000 End Pane 1 13T Sproket 1/2" Pitch Boss 2010 A23339-01 50 3 4000 End Pane 1 1 CB to SB Drive Chain A2530-07 51 6 M12 x 50 Bolt 1 1 Decal 4000 Rodent Stop D4001 52 6 M12 x 55 Bolt 1 70mm Sproket Boss A2070-01 53 12 M12 x 55 Bolt 1 70mm Sproket Boss A2070-01 53 12 M12 x 55 | 21 | - | Gearbox Calibration Decal | D3032 | 48 | 0 | 6 x 40 Roll Pin | 9251 |
| 1 13T Sprocket 1/2" Pitch Boss 20ID A2530-01 50 3 4000 End Pane 1 CB to SB Drive Chain A2530-07 51 6 M12 x 55 Bolt 1 Decal 4000 Rodent Stop D4001 53 12 M12 x 55 Bolt 1 70mm Sprocket Boss A2070-01 53 12 M12 x 55 Bolt 1 38T Plate Sprocket Loss A2344 A2344 A2344 | 22 | - | M8 Nut | 9106 | 49 | - | 4000 End Panel Brace Assembly LH | A2530-10 |
| 1 GB to SB Drive Chain A2530-07 51 6 M12 x 50 Bolt 1 Decal 4000 Rodent Stop D4001 52 6 M12 x 55 Bolt 1 70mm Sprocket Boss A2070-01 53 12 M12 conelock1 1 38T Plate Sprocket ZP A2344 A2344 | 23 | - | 13T Sprocket 1/2" Pitch Boss 20ID | A2339-01 | 20 | e | 4000 End Panel Brace Assembly RH | A2530-11 |
| 1 Decal 4000 Rodent Stop D4001 52 6 M12 x 55 Bolt 1 70mm Sprocket Boss A2070-01 53 12 M12 Conelock1 1 38T Plate Sprocket ZP A2344 A2344 A2344 | 24 | - | GB to SB Drive Chain | A2530-07 | ί. | e G | M12 x 50 Bolt | 8502H |
| 1 70mm Sprocket Boss 0 0 0 0 1 33T Plate Sprocket Boss A2344 53 12 M12 Conelock I | 1 | | | 04004 | 5 6 | 9 9 | | 8617H |
| 1 70mm Sprocket Boss A20/0-01 33 12 [M12 Conelock] | Q 2 | - | | 104001 | 2 | 0 | | |
| 1 381 Plate Sprocket ZP | 26 | - | 70mm Sprocket Boss | A2070-01 | 53 | 12 | M12 Conelock Nut | 9150 |
| ATCHISON INDUSTRIES ATCHISON INDUSTRIES EXPLODED VIEW DRAWING PRODUCT: Jumbo End Panels & Drive System (Numbers) DRAWI BY: FMILVI DRAWI BY: FMILVI DR | 27 | - | 38T Plate Sprocket ZP | A2344 | | | Ĺ | |
| AITCHISON INDUSTRIES EXPLODED VIEW DRAWING PRODUCT: Jumbo End Panels & Drive System (Numbers) DATE: 16/08/2013 A2630-ASSY ISSUE B | i | | | · · · | - | | ſ | |
| AITCHISON INDUSTRIES EXPLODED VIEW DRAWING PRODUCT: Jumbo End Panels & Drive System (Numbers) DRAWN BY: Phil W DRAWN BY: Thil W DRAWN BY: 1608/2013 A2630-ASSY ISSUE B | | | fan: | ₽ ₽ | / | | | |
| AITCHISON INDUSTRIES EXPLODED VIEW DRAWING PRODUCT: Jumbo End Panels & Drive System (Numbers) DATE: 16/08/2013 A2630-ASSY ISSUE B | | | A Cost of Cost | | | | | |
| AITCHISON INDUSTRIES EXPLODED VIEW DRAWING PRODUCT: Jumbo End Panels & Drive System (Numbers) DRAWN BY: Phil W DATE: 16/08/2013 A2630-ASSY ISSUE B | | | | | | J.C. | | |
| EXPLODED VIEW DRAWING EXPLODED VIEW DRAWING PRODUCT: Jumbo End Panels & Drive System (Numbers) DRAWN BY: Phil W DATE: 16/08/2013 A2630-ASSY ISSUE B | | | | | | • | | |
| EXPLODED VIEW DRAWING PRODUCT: Jumbo End Panels & Drive System (Numbers) DRAWN BY: Phil W DATE: 16/08/2013 A2630-ASSY ISSUE B | | | | | | | AITCHISON INDUSTRIES | |
| PRODUCT: Jumbo End Panels & Drive System (Numbers) DRAWN BY: Phil.W DATE: 16/08/2013 A2630-ASSY ISSUE B | | | | | | | EXPLODED VIEW DRAWI | NG |
| Phil.W | | | | | | | PRODUCT: Jumbo End Panel (Numbe | s & Drive System Is) |
| 08/2013 A2630-ASSY | | | 7 | | | | Phil.W | |
| | | | | | | | 08/2013 | |

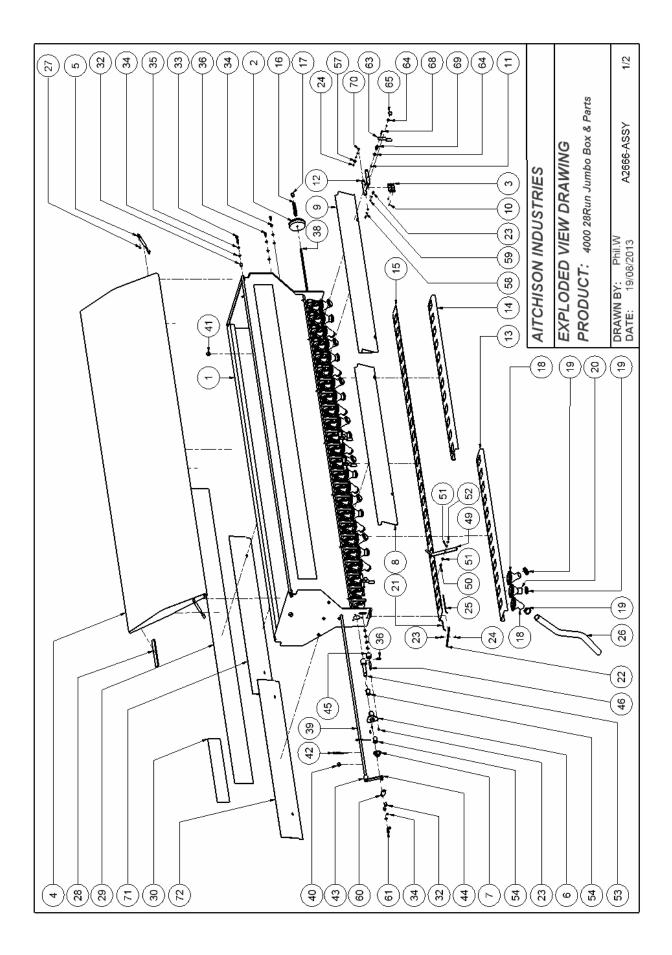




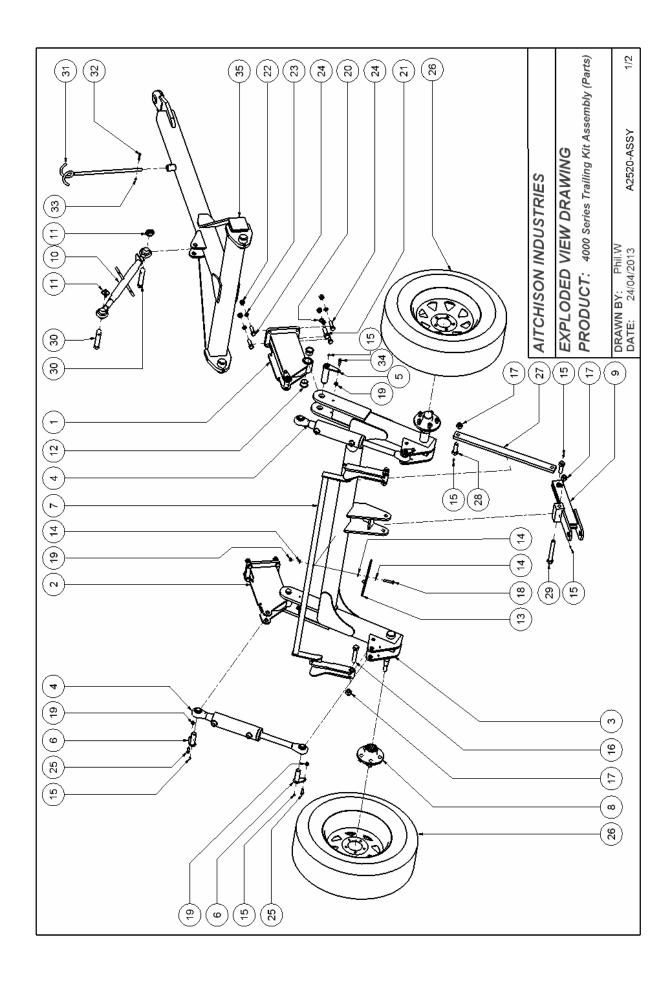
| ITEM | QTY | DESCRIPTION | PART NUMBER | TEM | QTγ | | DESCRIPTION | PART NUMBER |
|------|-----|--|-------------|-----|-----|--------------------------------------|--|-------------|
| - | - | 28Run Seed Box Assembly | A2574 | 36 | - | 28Run Seed D-S Rear Inspection Panel | ar Inspection Panel | A2573-04 |
| 2 | 4 | 3" x 2" S/S Butt Hinge | A23805 | 37 | ٢ | 28Run Seed Non-D- | 28Run Seed Non-D-S Rear Inspection Panel | A2573-05 |
| e | 28 | Sponge Pad & Disc | A2364 | 38 | - | 4000 28Run Agitator Shaft | r Shaft | A2573-06 |
| 4 | - | 28Run Front D-S Calibration Panel Assembly | A2575 | 39 | - | 4000 End Panel Rodent Handle | dent Handle | A2540-11 |
| 5 | - | 28Run Front Non-D-S Calibration Panel Assembly | A2576 | 40 | - | 8mm Flat Washer | | 9031 |
| 9 | - | Seed Shaft Mount | A2337 | 41 | - | M8 x 20 Bolt | | 8311H |
| 7 | - | 13T Sprocket 1/2" Agitator Boss | A28025 | 42 | ~ | M8 Nyloc Nut | | 9105 |
| 8 | - | 4000 Series Seed Lid Assembly (28Run) | A2577 | 43 | 9 | S 210M Flanged Bush | lsh | A2357 |
| 6 | t- | 35mm Seed Dropper Hose / Meter | A2384-01 | 44 | 28 | Agitator Shart R Clip | | A2359 |
| 10 | 4 | 4000 Series Blank Off Plate Retainer | A2540-01 | 45 | - | 16mm Locking Collar | - | A2360 |
| 11 | - | 4000 Series D-End Seed Tray (28Run) | A2573-01 | 46 | - | Agitator Boss | | A28034-02 |
| 12 | - | 4000 Series Non-D-End Seed Tray (28Run) | A2573-02 | 47 | Ļ | 4000 Adjatator Shaft Arm | t Arm | A2540-12 |
| 13 | 1 | 4000 Series Rodent Stop Slide (28Run) | A2573-03 | 48 | - | Agitator Arm Link | | A28008 |
| 14 | 1 | 4000 Series Rodent Stop Link Wire | A2540-05 | 49 | 2 | Agitator Link Bolt | | A2618-04 |
| 15 | 1 | 4000 Series Rodent Stop Link Arm | A2540-06 | 50 | 2 | S 15 Flanged Bush | | A2352 |
| 16 | 16 | M6x20 Bolt | 8205H | 51 | - | M6 Grease Nipple Straight | itraight | 9323 |
| 17 | 9 | M6 Nyloc Nut | 9109 | 52 | ٦ | Seed Shaft Axle | | A2361 |
| 18 | 1 | 4000 Series Rodent Stop Lever Wire | A2540-07 | 55 | ٢ | 4000 28Run Seed Shaft | thaft | A2573-07 |
| 19 | 16 | 6-8 S/S Rivet | 9302 | 56 | 4 | S 206M Flanged Bush | sh | A2355 |
| 20 | 7 | 6mm Fender Washer | 9022 | 57 | 9 | 10 mm Flat Washer | | 9042 |
| 21 | 19 | M6 Nut | 9121 | 58 | - | M10 Nyloc Nut | | 9142 |
| ន | 19 | 6mm Spring Washer | 9021 | 59 | - | Nylon Tensioner Roller | ller | A2336-04 |
| 23 | 4 | M6 x 25 Bolt | 8213H | 60 | - | M12 x 65 Bolt | | 8507H |
| 24 | 4 | Seed Tray Clip | A3040-07 | 61 | 2 | M12 Nut | | 9152 |
| 25 | 4 | M6 Cross Knob | 9122 | 23 | 2 | 12mm Flat Washer | | 9051 |
| 26 | 8 | 6mm S/S Fender Washer | 9022S | 63 | ∞ | 10mm Spring Washer | er | 9041 |
| 27 | 4 | M6 S/S Nut | 9121S | 64 | 9 | M10 x 25 Bolt | | 8418H |
| 28 | 4 | M6 x 20 S/S Bolt | 8205S | 65 | 9 | M10 Nut | | 9141 |
| 29 | 4 | M6 x 50 SS Bolt | 8210S | 99 | - | 3M Yellow Panel Decal | ical | D1513 |
| 30 | 4 | Agrispred Spinner Disc Spring | A4619 | 67 | 2 | M10 x 65 Bolt | | 8417H |
| 31 | 28 | Seed Pad Spring | A2280-10 | 68 | - | 4000 Series Lid Stay | Υ | A2540-15 |
| 32 | 28 | S 9 Plastic Bush | A2280-11 | 69 | - | 3 x 20 Roll Pin | | 9267 |
| 33 | 19 | Fert Cup Angled | A2290-13 | 70 | 4 | Buffer Pad | | A2375 |
| 34 | | Fert Cup Straight | A2290-12 | 71 | - | 6 x 40 Roll Pin | | 9251 |
| 35 | 28 | 35mm Crey Clip | A2370 | 72 | ~ | M10 x 20 Bolt | | 8419H |
| | | | | | | AIT | AITCHISON INDUSTRIES | |
| | | | | | | EXI | EXPLODED VIEW DRAWING | |
| | | | | I | | PR | PRODUCT: 28Run Seed Box & Parts Assembly | s Assembly |
| | | | | 7 | | | (Numbers) | |
| | | | -15 | | | DRA | DATE: 24/07/2013 A2573-ASSY | SSY 2/2 |
| | | | | | | | | |



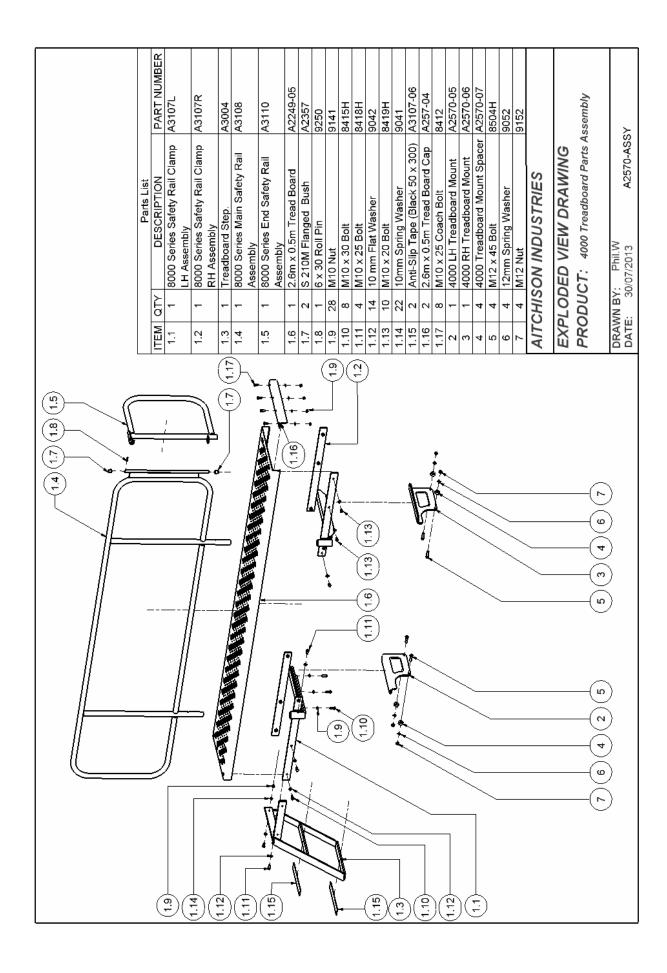
| | | Parts List | | | | | Parts List | |
|------|-----|---|-------------|------|----------------|-------------------------------|--|-------------|
| ITEM | QTY | DESCRIPTION | PART NUMBER | ITEM | QTY | | | PART NUMBER |
| - | - | 4000 28Run Complete Fert Box Assembly | A2584 | 35 | 7 | 10mm Spring Washer | | 9041 |
| 2 | - | 4000 28Run Fert Auger Assembly | A2587 | 36 | ы | M10 Nut | | 9141 |
| 3 | 1 | 4000 Fert Auger Drive Mount Assembly | A2555 | 37 | 3 | 6200 Bearing | 4 | 9219 |
| 4 | - | 4000 28Run LH Fert Baffle Assembly | A2588LH | 38 | 2 | 13T 1/2" Pitch Idler Sprocket | | A2550-05 |
| 5 | ٢ | 4000 28Run RH Fert Baffle Assembly | A2588RH | 39 | - | 17T Plate Sprocket Tensioner | | A2350-01 |
| 9 | ۰ | Fertiliser Control Arm | A23142 | 40 | ~ | 4000 Fert Auge | ISS | A2550-02 |
| 7 | - | Fertiliser Control | A23143 | 42 | - | 10mm HD Flat Washer | | 9040 |
| œ | - | M10 Fert Adjuster Handle | A23145 | 43 | ٦ | M10 x 45 Bolt | | 8404H |
| 6 | - | 4000 28Run Fert Slide Assembly | A2589 | 44 | - | 7/8" Shaft Collar (22mm) | | A23148 |
| 10 | - | 4000 28Run LH Fert Slide Cover Assembly | A2569LH | 45 | ~ | 4000 Fert Box Drive Chain | | A2550-04 |
| 11 | - | 4000 28Run RH Fert Slide Cover Assembly | A2569RH | 46 | ø | M6 x 16 Bolt | | 8208H |
| 12 | - | 4000 Series Seed Lid Assembly (28Run) | A2577 | 47 | ø | 6mm Spring Washer | | 9021 |
| 13 | - | 4000 Series End Auger Bush | A2556 | 48 | 4 | M6 Nut | | 9121 |
| 14 | 2 | 4000 Series Central Auger Bush | A2557 | 49 | 19 | Round Cup Angled | | A2369 |
| 15 | - | S 15 Flanged Bush | A2352 | 50 | 28 | 35mm Crey Clip | | A2370 |
| 16 | - | M6 Grease Nipple Straight | 9323 | 51 | ი | Round Cup Straight | | A2368 |
| 17 | - | 27T Sprocket Half Inch Pitch 7/8" Bore | A23130 | 52 | 9 | M10 x 25 S/S Bolt | | 8418S |
| 18 | - | 6 x 50 Roll Pin | 9262 | 53 | 9 | 10mm S/S Flat Washer | | 9039S |
| 19 | 2 | 4000 28Run Trough Removable Panel | A2583-01 | 54 | 9 | 10mm S/S Spring Washer | | 9041S |
| 20 | 9 | M6 Cross Knob | 9122 | 55 | 9 | M10 S/S Nut | | 9141S |
| 21 | - | 10mm Spacer | A23142-01 | 56 | ~ | 13T Sprocket 1 | 13T Sprocket 1/2" Pitch Boss 20ID | A2339-01 |
| 22 | 2 | M10 Fender Washer | 9037 | 58 | - | 3M Yellow Panel Decal | | D1513 |
| 23 | 2 | 3 x 20 Roll Pin | 9267 | 59 | 2 | S 206M Flanged Bush | | A2355 |
| 24 | 2 | M8 x 25 Bolt | 8305H | 09 | 2 | M10 x 65 Bolt | | 8417H |
| 25 | 2 | 8mm Flat Washer | 9031 | 61 | ~ | 4000 Series Lid Stay | | A2540-15 |
| 26 | 2 | 8mm Spring Washer | 9030 | 62 | 4 | Buffer Pad | | A2375 |
| 27 | ~ | M8 Nut | 9106 | 63 | - | Decal "SEEDMATIC" | | D1510 |
| 28 | - | M12 × 90 Bolt | 8524H | 64 | - | Decal "4128CT" | | D4005 |
| 29 | 2 | 12mm Flat Washer | 9051 | 65 | - | 35mm Seed Dr | 35mm Seed Dropper Hose / Meter | A2384-01 |
| 30 | - | M12 Nyloc Nut | 9151 | 99 | - | 1/2" Chain Joiner | | ZCH1/2J |
| 31 | ٦ | Fert Leaver Spring | A23146 | 67 | - | 1/2" Chain Half Link | | ZCH1/2L |
| 32 | - | S 179M Plastic Bush | A23142-02 | 68 | - | 6 x 40 Roll Pin | | 9251 |
| 33 | 2 | M10 x 25 Bolt | 8418H | 69 | 2 | M10 x 20 Bolt | ** | 8419H |
| 34 | 4 | 10 mm Flat Washer | 9042 | | | | | |
| | | | Ų, | | | | AITCHISON INDUSTRIES | |
| | | | | 4 | 1 | - - - | | |
| | | | | | | Ň | EXTLODED VIEW DRAWING | |
| | | | | ĮЦ, | | #. | PRODUCT: 4000 Series 28Run Fert Box & Drive (Numbers) | 3ox & Drive |
| | | | | ļ | \overline{r} | | DRAWN BY: Phil.W DATE: 29/04/2013 A2583-ASSY IS | ISSUE B 2/2 |
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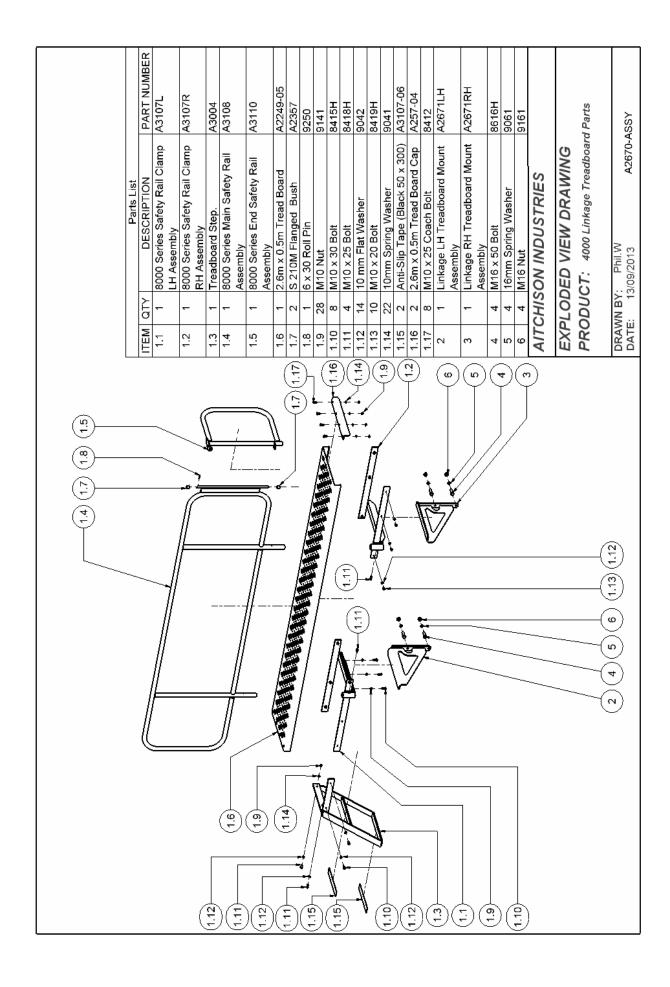


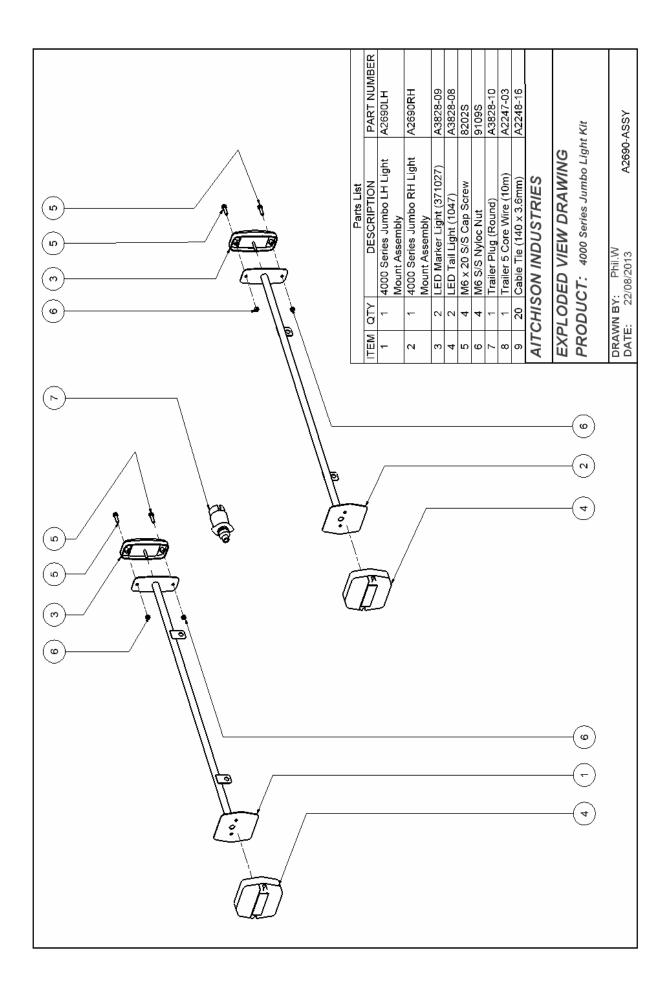
| ITEM | QTY | DESCRIPTION | PART NUMBER | ITEM | QTΥ | DESCRIPTION | PART NUMBER |
|------|-----|--|-------------|------|-----|---|-----------------|
| - | - | 28Run Jumbo Box Assembly (4000) | A2667 | 37 | ∞ | M10 Nut | 9141 |
| 2 | 28 | Sponge Pad & Disc | A2364 | 38 | - | 4000 28Run Seed Shaft | A2573-07 |
| ю | 4 | 3" × 2" S/S Butt Hinge | A23805 | 39 | - | 4000 28Run Agitator Shaft | A2573-06 |
| 4 | 1 | 4000 Series Jumbo Lid Assembly (28Run) | A2668 | 40 | 9 | S 210M Flanged Bush | A2357 |
| 5 | 2 | Ezy Lift Gas Stay | A3041-02 | 41 | 1 | 16mm Locking Collar | A2360 |
| ø | - | Seed Shaft Mount | A2337 | 42 | 28 | Agitator Shart R Clip | A2359 |
| 7 | - | 13T Sprocket 1/2" Agitator Boss | A28025 | 43 | - | Agitator Boss | A28034-02 |
| 80 | - | 28Run Front D-S Calibration Panel Assembly | A2575 | 44 | ٦ | 4000 Adjatator Shaft Arm | A2540-12 |
| 6 | ٦ | 28Run Front Non-D-S Calibration Panel Assembly | A2576 | 45 | - | Nylon Tensioner Roller | A2336-04 |
| 10 | œ | 6-8 S/S Rivet | 9302 | 46 | - | M12 × 65 Bolt | 8507H |
| 11 | 2 | M6 S/S Nyloc Nut | 9109S | 47 | 2 | M12 Nut | 9152 |
| 12 | 4 | 4000 Series Blank Off Plate Retainer | A2540-01 | 48 | 2 | 12mm Flat Washer | 9051 |
| 13 | - | 4000 Series D-End Seed Tray (28Run) | A2573-01 | 49 | - | 4000 End Panel Rodent Handle | A2540-11 |
| 14 | - | 4000 Series Non-D-End Seed Tray (28Run) | A2573-02 | 20 | - | M8 × 20 Bolt | 8311H |
| 15 | - | 4000 Series Rodent Stop Slide (28Run) | A2573-03 | 51 | 2 | 8mm Flat Washer | 9031 |
| 16 | 28 | Spring - Moore Sponge Pad | A2280-10 | 52 | - | M8 Nyloc Nut | 9105 |
| 17 | 28 | S 9 Plastic Bush | A2280-11 | 23 | - | Seed Shaft Axle | A2361 |
| 18 | 19 | Fert Cup Angled | A2290-13 | 54 | 2 | S 15 Flanged Bush | A2352 |
| 19 | 28 | 35mm Crey Clip | A2370 | 55 | - | 6 x 40 Roll Pin | 9251 |
| 20 | 6 | Fert Cup Straight | A2290-12 | 56 | - | M6 Stright Grease Nipple | 9323 |
| 21 | ٦ | 4000 Series Rodent Stop Link Wire | A2540-05 | 57 | 2 | 6mm Fender Washer | 9022 |
| 22 | ~ | 4000 Series Rodent Stop Link Arm | A2540-06 | 28 | 6 | 6mm Spring Washer | 9021 |
| 23 | 16 | M6x20 Bolt | 8205H | 59 | 19 | M6 Nut | 9121 |
| 24 | ъ | M6 Nyloc Nut | 9109 | 60 | - | Agitator Arm Link | A28008 |
| 25 | - | 4000 Series Rodent Stop Lever Wire | A2540-07 | 61 | 0 | Agitator Link Bolt | A2618-04 |
| 26 | ~ | 35mm Seed Dropper Hose / Meter | A2384-01 | 62 | - | M10 Nyloc Nut | 9142 |
| 27 | 2 | M8 Half Nut | 9103 | 63 | 4 | Seed Tray Clip | A3040-07 |
| 28 | ო | Buffer Pad | A2375 | 64 | ø | 6mm S/S Fender Washer | 9022S |
| 29 | 7 | 3M Yellow Panel Decal | D1513 | 65 | 4 | M6 Cross Knob | 9122 |
| 90 | - | Decal "SEEDMATIC" | D1510 | 99 | 4 | M6 S/S Nut | 9121S |
| 31 | ٢ | Decal "4028J" | D4007 | 67 | 4 | M6 x 20 S/S Bolt | 8205S |
| 32 | 4 | S 206M Flanged Bush | A2355 | 68 | 4 | M6 x 50 SS Bolt | 8210S |
| 33 | 2 | M10 × 65 Bolt | 8417H | 69 | 4 | Agrispred Spinner Disc Spring | A4619 |
| 34 | 12 | 10 mm Flat Washer | 9042 | 70 | 4 | M6 × 25 Bolt | 8213H |
| 35 | 10 | 10mm Spring Washer | 9041 | 71 | ٢ | 28Run Jumbo Rear Non D-S Inspection Panel | A2666-01 |
| 36 | 6 | M10 × 25 Bolt | 8418H | 22 | - | 28Run Jumbo Rear D-S Inspection Panel | A2666-02 |
| | | Ļ | Ń | | | AITCHISON INDUSTRIES | |
| | | | | | | EXPLODED VIEW DRAWING | (1) |
| | | | | | | PRODUCT: 4000 38Bun lumbe Box Box Mumbare | ov Dort Mumboro |
| | | | | | | | |
| | | R. | | | | DRAWN BY: Phil.W DATE: 19/08/2013 A2666-ASSY | SY 2/2 |
| | | | | | | | |



| | | Parts List | | | | Parts List | |
|--------------|-----|-----------------------------------|-------------|------|-----|---|----------------|
| ITEM | QTY | Y DESCRIPTION | PART NUMBER | ITEM | ατγ | DESCRIPTION | PART NUMBER |
| - | - | Rear Axle Pivot Mount RH Assembly | A2521RH | 19 | 7 | M10 Nyloc Nut | 9142 |
| 2 | - | Rear Axle Pivot Mount LH Assembly | A2521LH | 20 | 2 | 20mm Spring Washer | 9076 |
| e | - | Rear Transport Axle Assembly | A2523 | 21 | 2 | M20 x 60 Bolt | 8712H |
| 4 | 2 | | A2520-03 | 22 | 80 | M16 Nut | 9161 |
| 5 | 2 | | A2524 | 23 | ø | 16mm Spring Washer | 9061 |
| 9 | 4 | | A2525 | 24 | 8 | M16 x 55 Bolt | 8603H |
| 7 | - | Rear Axle Lock Assembly | A2526 | 25 | 4 | M10 x 30 Bolt | 8415H |
| œ | 2 | Trojan 5 Stud Hub | TR 082030 | 26 | 2 | 235 -70/R15 Wheel Assembly | A3127-01 |
| ი | - | Rear Tow Hitch Tounge Assembly | A2527 | 27 | - | Rear Axle Tow Eye Link | A2520-02 |
| 6 | - | Cat 2 Turnbuckle | A23189-01 | 28 | 2 | Rear Axle Towbar Link Bolt | A5185-05 |
| ;- | 2 | 11mm Lynch Pin | 9288 | 29 | 1 | M20 x 150 Bolt | 8702 |
| 5 | 4 | | A3710-53 | 30 | 2 | Top Link Pin B76 | A23189-02 |
| ن | - | Rear Axle Lock Lever | A2520-01 | 31 | - | Hidrolic Hose Pig Tail Pole | A23188-14 |
| 4 | ო | 10 mm Flat Washer | 9042 | 32 | 1 | M6 x 45 Bolt | 8203H |
| 15 | တ | M6 Grease Nipple Straight | 9323 | 33 | 1 | M6 Nyloc Nut | 9109 |
| 16 | 2 | M20 × 100 Bolt | 8709H | 34 | 2 | M10 x 35 Bolt | 8402H |
| 17 | വ | M20 Nyloc Nut | 9122 | 35 | 1 | 4000 Drawbar Assembly | A2528 |
| 8 | - | M10 x 55 Bolt | 8427H | 37 | 1 | Trailing Hydraulic Hose Kit | A3127-02 |
| | | | | e | | AITCHISON INDUSTRIES EXPLODED VIEW DRAWING PRODUCT: 4000 Series Trailing Kit (Part Numbers) | (Part Numbers) |
| | | | | | | DRAWN BY: Phil.W DATE: 24/04/2013 A2520-ASSY | SSY 2/2 |
| | l | | | | | - | |







| Parts List | ITEM QTY DESCRIPTION PART NUMBER | 1 1 4000 Series LH Light Mount A2591LH | Assembly | 2 1 4000 Series KH LIGht Mount A2391 KH Assembly | LED Marker Light (371027) | 4 2 LED Tail Light (1047) A3828-08 | 1 Trailer Plug (Round) | 4 M6 x 20 S/S Cap Screw | 4 M6 S/S Nyloc Nut | 1 Trailer 5 Core Wire (10m) | 9 20 Cable Tie (140 x 3.6mm) A2248-16 | AITCHISON INDUSTRIES | EXPLODED VIEW DRAWING | PRODUCT: 4000 Series Light Kit (Seed & Fert Models) | DRAWN BY: Phil.W DATE: 9/08/2013 A2590-ASSY |
|------------|----------------------------------|--|----------|---|---------------------------|------------------------------------|------------------------|-------------------------|--------------------|-----------------------------|---------------------------------------|----------------------|-----------------------|---|--|
| | } | | | | | | | | | | | | | -(| 4 |
| | | | | | | | | | | | | | | (: (: | |

| | | PART NUMBER | A2389 | A2389-01 | 9335 | A2389-02 | 8213H | 9021 | 9121 | A2248-16 | | PAKI NUMBER | TTT DIMENSIONS IN MM | smeter Kit Parts | DRAWING NO. | 1/30/2008 A2389A |
|---------------|------------|-------------|-----------------------------|-----------------------|--------------------------|-------------------------|--------------|-------------------|--------|---------------------|---|-------------|-----------------------------|----------------------------------|---|------------------|
| | List | NO | | | | | | | | | | MAIERIAL | DO NOT SCALE | Aitchison Hectaremeter Kit Parts | | Phil.W scale: |
| | Parts List | DESCRIPTION | - | | | | | | | - | _ | | STRIES | | (WISE STATED <u>空間 (2011) (2013 引行) (2010</u> (2002) | |
| agnet pressed | | | Aitchison Areameter Monitor | Magnet Mounting Block | Hose Clip 11 to 25mm S/S | Sensor Mounting Bracket | M6 x 25 Bolt | 6mm Spring Washer | M6 Nut | 140 x 3.6 Cable Tie | | PARI NAME | AITCHISON INDUSTRIES | | TOLERANCE UNLESS OTHERWISE STATED | |
| | I L | ITEM QTY | - | 2 1 | 3 1 | 4 | 5 1 | - | | 8 10 | | | AITCI | | TO | TOLERANCE |
| | Ũ | | | | | | | | | | | | 2XOITA 31AQ A 3 | NUTA | 2IGH | 31755 |