



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

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### **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: "when all else fails-read the operators manual" 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

# **A** WARNING

#### 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 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's 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:		
Phone No: Business:	Private:	
Date of Purchase:		
Model:	Serial Number:	

The warranty card on your Seedmatic 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. **Failure to carry out this function could nullify warranty claim opportunities against the factory in the future**. 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	4024	4024T	4124C	4124CT
	3.425m	3.425m	3.425m	3.425m
Transport Width	11.23ft	11.23ft	11.23ft	11.23ft
	3.000m	3.000m	3.000m	3.000m
Sowing Width	9.8ft	9.8ft	9.8ft	9.8ft
	1.750m	1.750m	1.750m	1.750m
Height	5.7ft	5.7ft	5.7ft	5.7ft
	1420kg	1785kg	1550kg	1915kg
Weight Empty	3130lb	3935lb	3417lb	42211b
	2.080m	4.375m	2.270m	4.375m
Length	6.8ft	14.3ft	7.4ft	14.3ft
	850lt	850lt	570lt	570lt
Seed Capacity	24.1bu	24.1bu	16.1bu	16.1bu
	N/A	N/A	590lt	590lt
Fertiliser Capacity			16.7bu	16.7bu
Number of Coulters	24 Rows @	24 Rows @	24 Rows @	24 Rows @
& row spacings	125mm / 5"	125mm / 5"	125mm / 5"	125mm / 5"

Optional Accessories:

Bin level indictor;	A3083
Hydraulic kit for Drawbar;	A3129

# 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 Aitchison's 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.

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



FILE





#### **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.

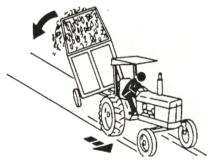
Reduce speed over rough ground

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 (3-4") 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 can have crop failures on the first occasion, but as their skills and understanding of the technique improve, so do their crop results.

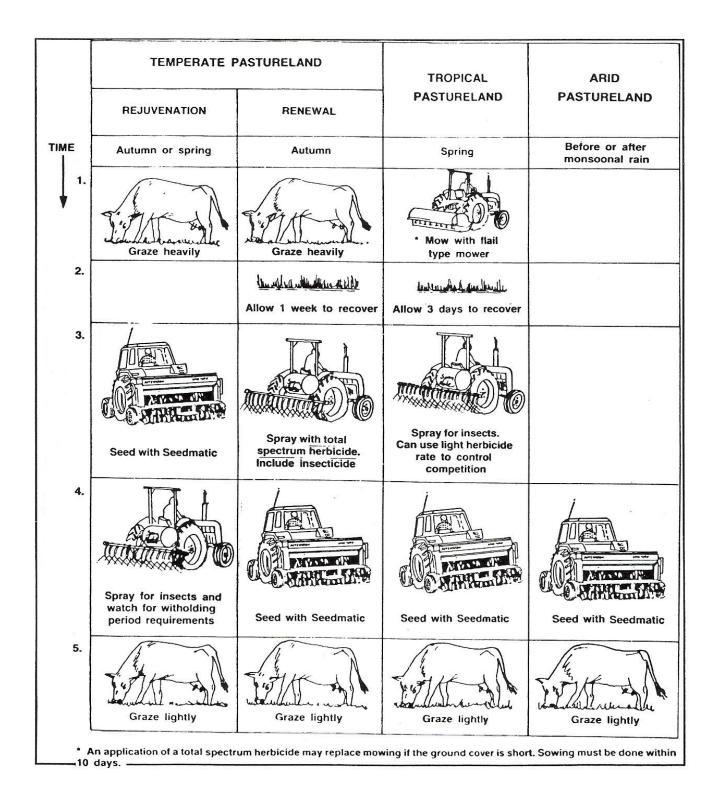
#### TECHNIQUES AND TIMING FOR PASTURE RENOVATION

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 in'. 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 can be disappointing, but grain after legume or brassica is outstanding.

#### Here are just a few possibilities:

**Brassicas, Turnips, Swedes, Legumes** – 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 – This can be seeded direct into pasture in early autumn. Herbage control can be carried out also if necessary.

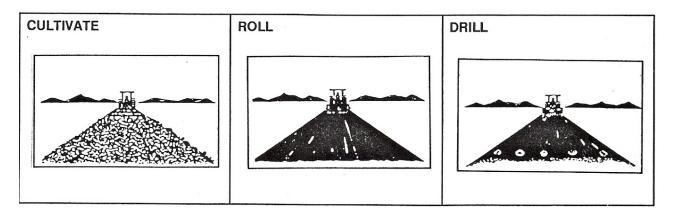
**Wheat and Barley** – Direct seeding in early spring or autumn depending on variety. Always spray out pasture with approved herbicide (may not be necessary after brassica). Always sow with fertiliser.

Lucerne, Alfalfa – 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 – particularly for control of slugs and spring snails.

**Green-feed Maize** – 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 (12" or 18") 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.

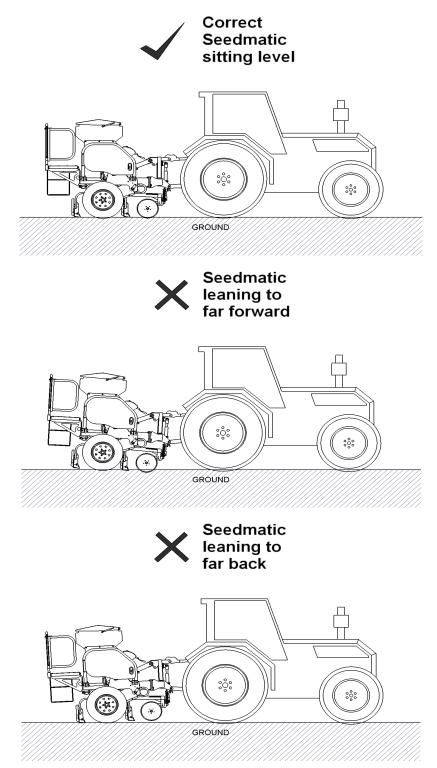


# We recommend that a chain harrow be towed behind the seed drill or roll the field after seeding has been completed.

# 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.



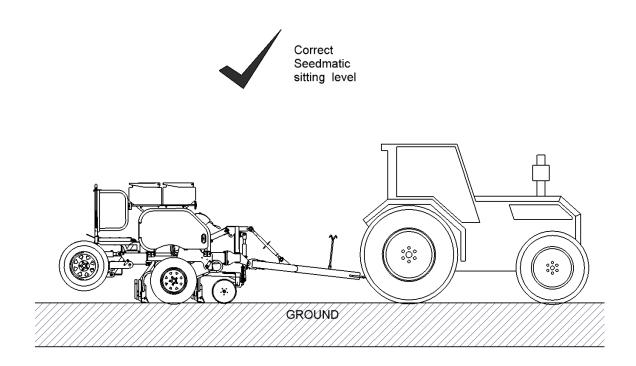
#### Connecting drill to tractor; Trailed Models.

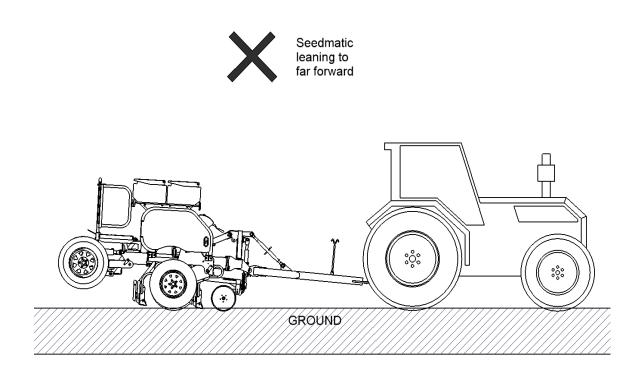
Connect the Seedmatic Drawbar to the tractors Towbar. Make sure you us a safety clip on the drawbar pin.

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

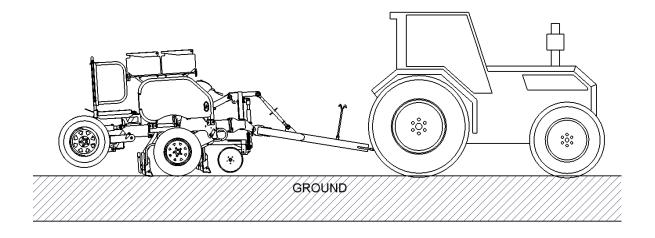
Connect the Seedmatic's hydraulic hoses to one of the tractors hydraulic banks. This hydraulic system is used to rase and lower the rear transport wheels on the Seedmatic. When seeding the rear transport wheels can be fully rased clear of the ground.

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





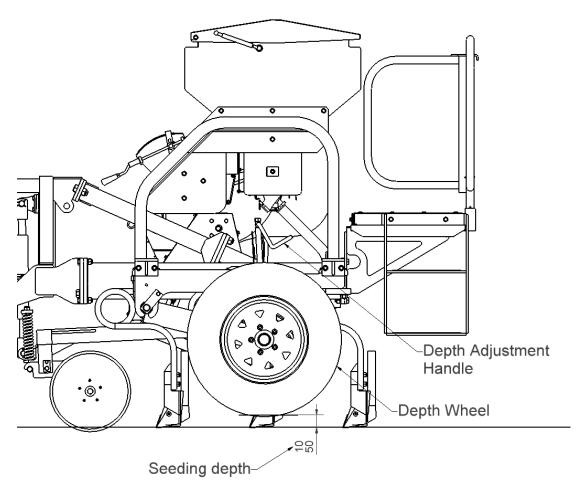




# Set the depth wheels.

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.

We recommend that a chain harrow be towed behind the Seedmatic to help cover the seed slots. This will help prevent bird strike and aid in seed germination.

# DISC COULTER KITSET

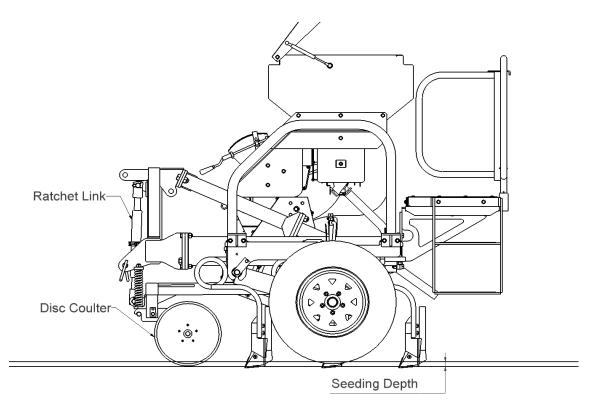
The Disc Coulters are designed to help cut trash/residue or stubble that may be present in the field. This trash/residue or stubble is cut into short lengths by the Disc Coulters, allowing the trash/residue or stubble to flow more efficiently past the Seed Openers with fewer blockages. The Disc Coulters 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.

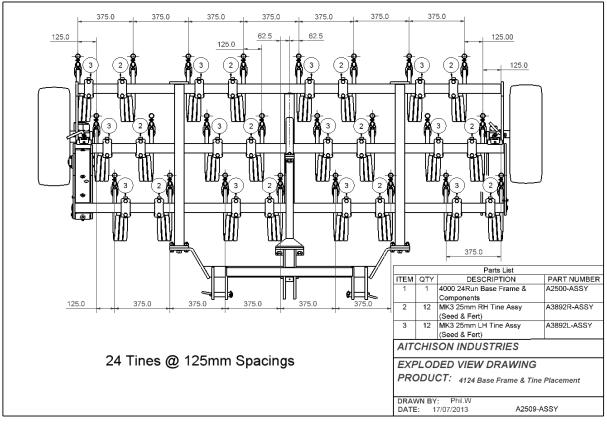


#### **Tine Alignment**

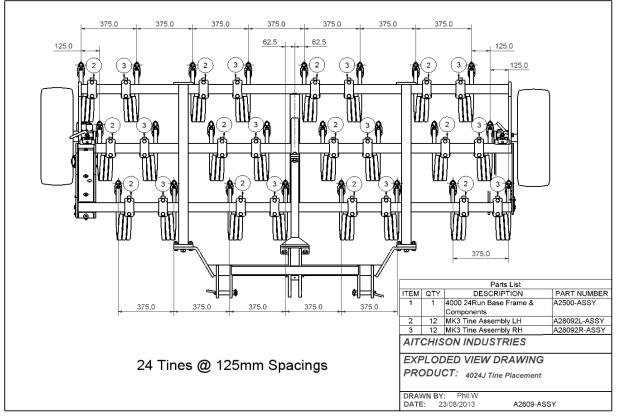
To get the best from your Disc Coulter kit check that the Seed Openers are tracking in the slots created by the Disc Openers. Failure to do so will result in severe tearing of your pasture. To make these adjustments loosen the top Tine Clamp and slide the Tine along the mainframe tool bar until alignment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

# TINE PLACEMENT

#### 4124CT Tine Placement



#### **4024J 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 will 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 Metering Unit

and dusted off with compressed air.

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 Rotate Crank Handle Clockwise 29	NOTE: Remember "TARE" scales before weighing; for the weight of the bag or container.
times. (5) Conversion:	(6) Check:
Divide the weight measured by <b>3</b> to establish kilograms per hectare.	Gearbox Pointer
ie: 45 grams / 3 = 15kg/ha	Gearbox Pointer Adjuster
	If above or below the desired rate, make the necessary adjustment via the Gearbox Pointer Adjuster. <b>RECALIBRATE</b>

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 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's beard; and other differences which would affect the seeding rate.

#### Example

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

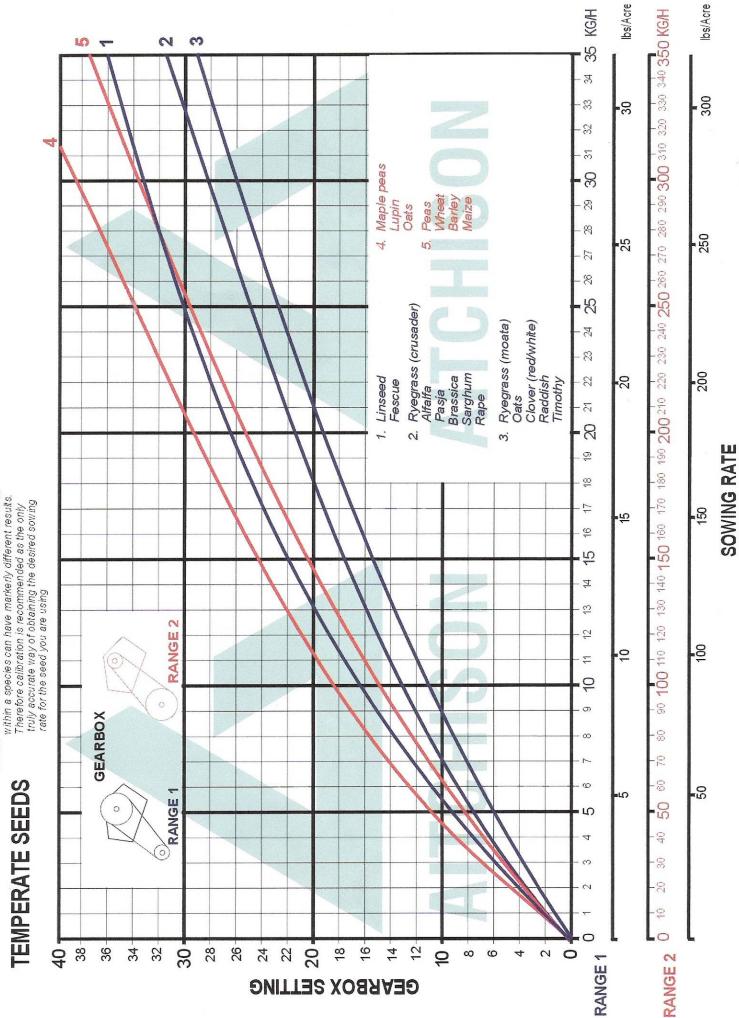
#### Note also that all seeds used on original chart were uncoated.

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.
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 will be increased 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.

#### **ALWAYS CALIBRATE BEFORE SEEDING!!!**



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

<u>\_ </u>

# 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.

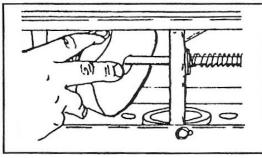
### OAT WIPER AND BEAN SPACER

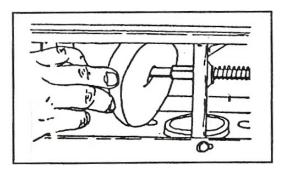
### **Bean Spacer (Optional)**

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 up' is 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.

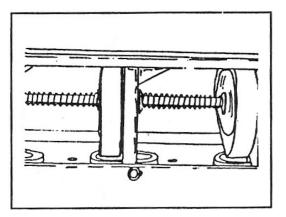
To fit the spacers follow these instructions:





- 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 (1/32") 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,

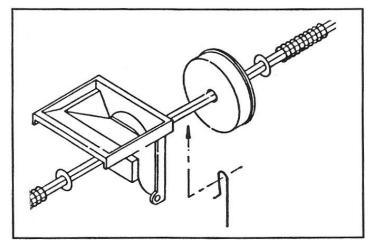
brassicas) or small grains (i.e. wheat) always remove the spacers and store in a safe place.

# 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 'wipes' the seeds that may be sticking to the pads on each rotation.

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



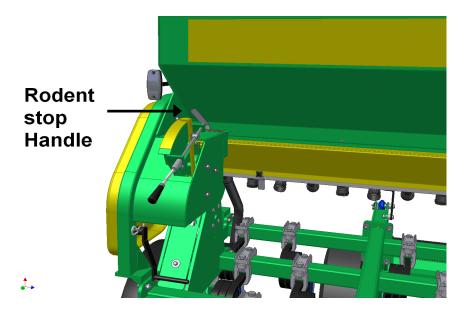
# **RODENT DANGER**

The sponge seed mechanism is unique – 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 "Blankoff Tray". 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.

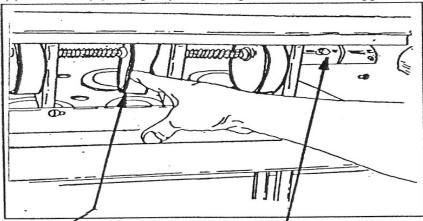


Move Handle towards the centre of drill to close off.

To give added protection, sponge pads can be treated with any strongly odoured insecticide powder – DIASINIT, LINDANE, MALATHION, and THIMET. **Note**: Rodent repellent can also be ordered from Aitchison's 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.



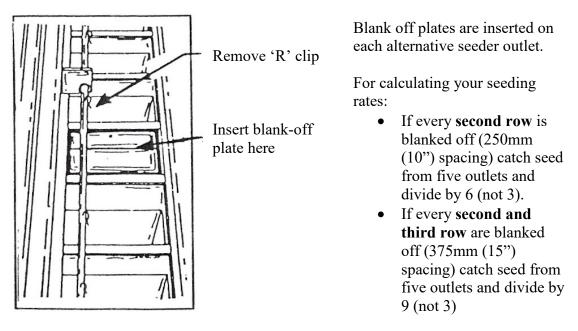
Push pads away to clean out seeds. To remove pads, loosen this setscrew and move shaft to the left.

#### 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.

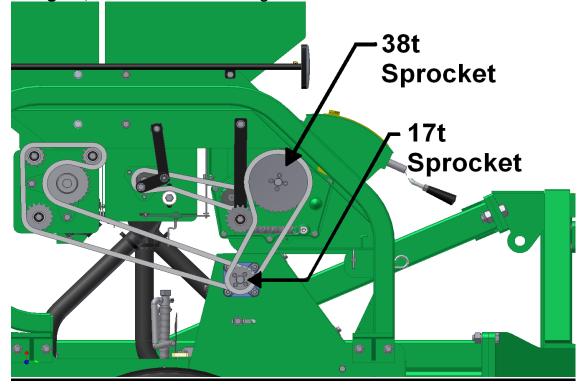
#### Using Blank Off Plates

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



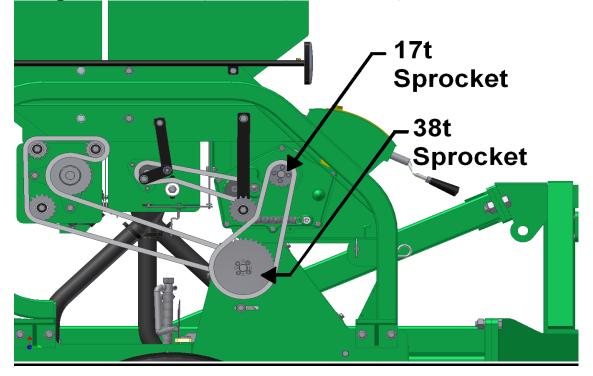
# CHANGING THE GEARBOX RATIO: Range 1 – Range 2

**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.

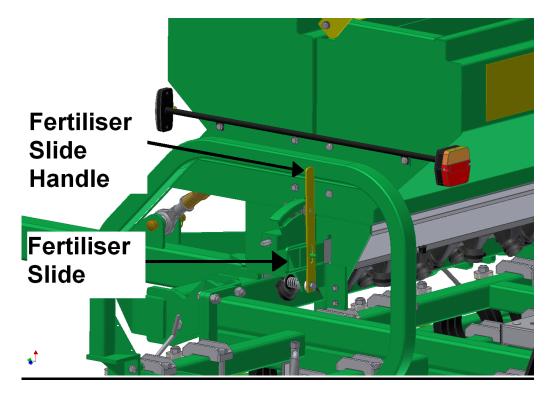
Range 2; Ratio for high seeding rates and big seeds.



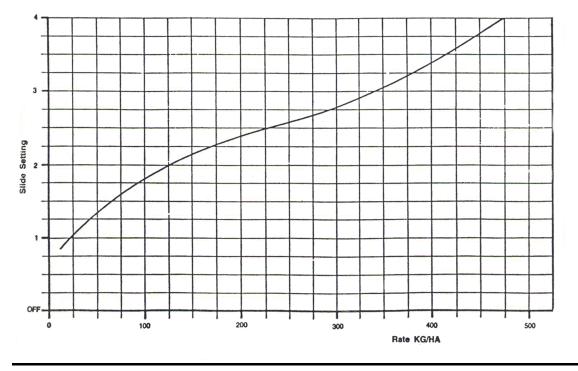
# THE FERTILISER SYSTEM

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



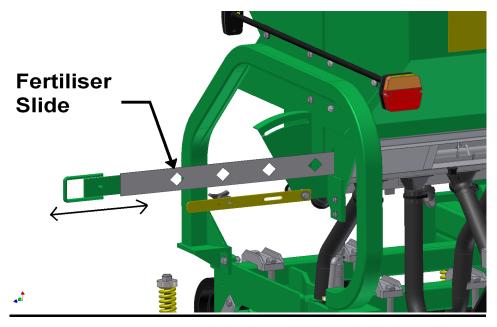
# MAINTENANCE AND CLEANING THE FERTILISER HOPPER

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 does not 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

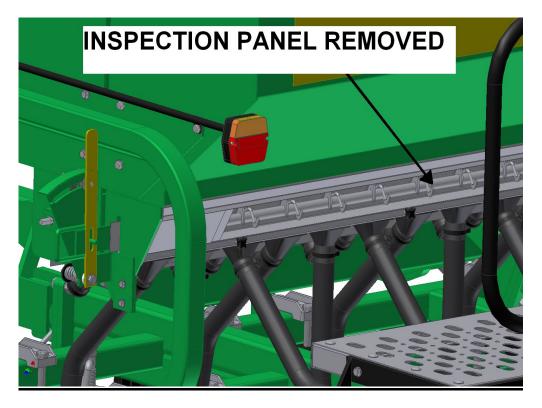


### AUGER BAFFLE REMOVED

Looking down inside the fertiliser hopper.

AUGER BAFF	

#### **REAR INSPECTION PANELS REMOVED**



# **GENERAL MAINTENANCE**

#### LUBRICATION

The gearbox should be kept filled 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 "Grease" sticker (shown above). Chains should be kept lubricated and should be removed at least once each season and thoroughly cleaned and oiled.

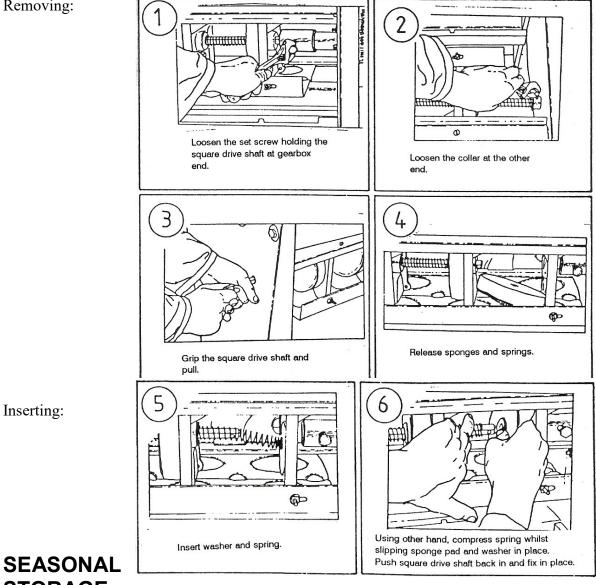
# CARE OF THE SPONGE PADS

The sponge feeds 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:



# 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

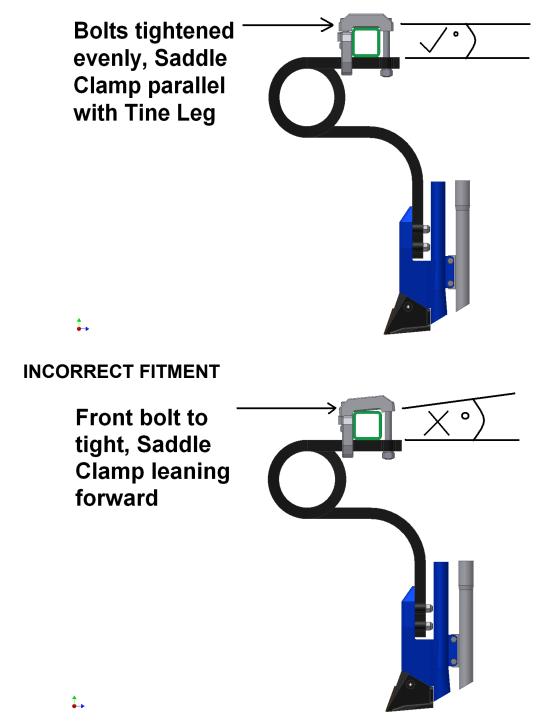
The 4000 Series Seedmatic is fitted with new 65mm Saddle Clamps, these camps have been designed to stop the tines from "walking" along the tool bars.

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

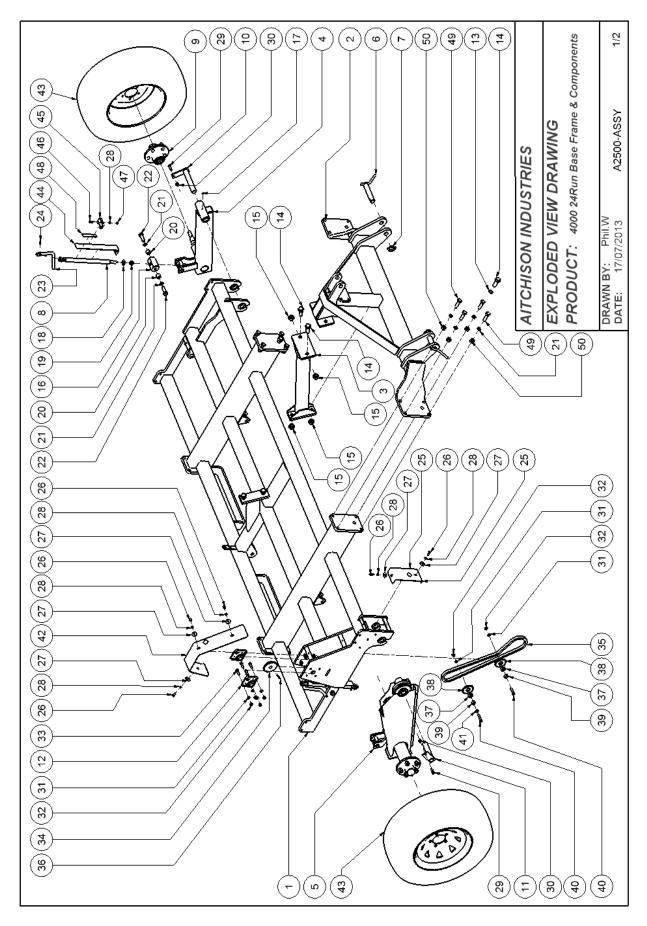
When fitting or adjusting ensure that the M16 bolts are tightened evenly so both the Saddle Clamp and the straight leg of the tine are parallel to each other.

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

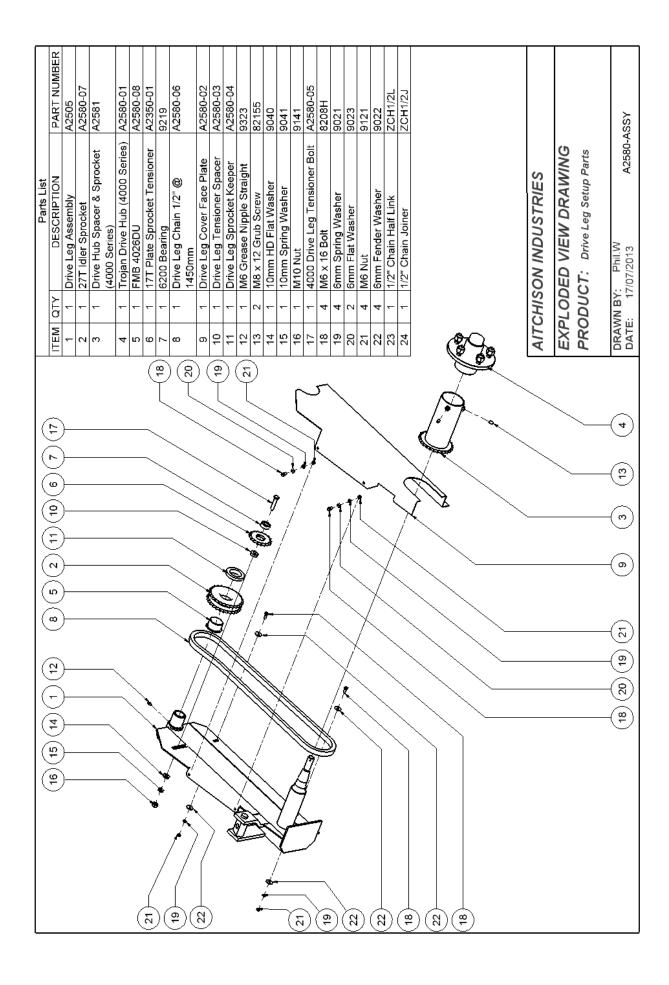
#### CORRECT FITMENT



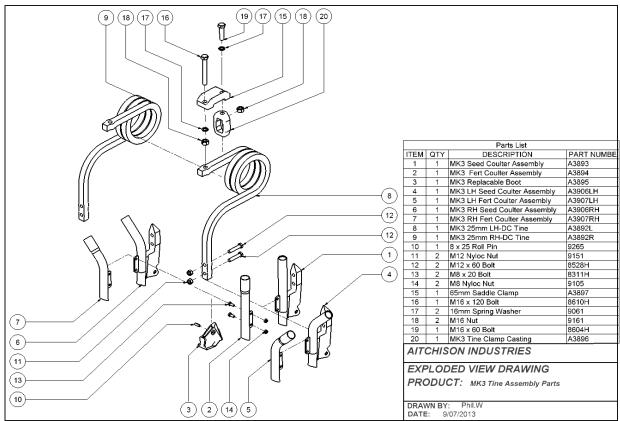
# PARTS BREAKDOWN



		Parts List				Parts List	
ITEM	QTY	DESCRIPTION	PART NUMBER	ITEM	QTY	DESCRIPTION	PART NUMBER
~	~	3m Frame Assembly	A2501	28	7	8mm Spring Washer 9030	330
0	-	4000 Head Stock Assembly	A2502	29	2		8415H
e	~	Headstock Stay Assembly	A2503	30	2	M10 Nyloc Nut 9142	142
4	-	Depth Leg Assembly	A2504	31	9	10mm Spring Washer 9041	041
S	-	Drive Leg Setup	A2580-ASSY	32	10	M10 Nut 9141	141
ဖ	ы	AIL Cat 2 Hitch Pin	A2327	33	œ	M10 x 35 Bolt 8402H	402H
7	~	11mm Lynch Pin	9288	34	-	22T Sprocket 1/2" Pitch 20mm Bore A250	A2500-09
œ	ы	Depth Control Rod Assembly	A2506	35	-	4000 Series DL to LS Chain A250	A2500-08
თ	~	Trojan 5 Stud Hub	TR 082030	36	~	6 x 50 Roll Pin 9262	262
10	~	4000 Depth Leg Pivot Pin	A2507	37	2	6200 Bearing 9219	219
11	Ł	4000 Drive Leg Pivot Pin	A2508	38	0	17T Plate Sprocket Tensioner	A2350-01
12	2	F204 Bearing & Housing	9221 / 92205	39	2	n Tensioner Spacer	A2500-04
13	0	20mm Spring Washer	9076	40	2	M10 x 50 Bolt 8403	8403H
14	4	M20 × 50 Bolt	8711H	41	-	10mm HD Flat Washer 9040	040
15	4	M20 Nyloc Nut	9122	42	٦	4000 Lay Shaft Cover A250	A2500-05
16	0	Threaded Top Trunion	A2309-01	43	0	215/75R 14C Wheel Assembly A250	A2500-10
17	З	M6 Grease Nipple Straight	9323	44	2	Depth Leg Depth Gauge	A2500-06
18	2	16mm ZP Washer	9063	45		Depth Gauge Retainer	A2500-07
19	2	M16 Nyloc Nut	16A	46			8305H
20	4	4000 Depth Leg Trunnion Keeper	A2500-01	47	2		106
21	12	16mm Spring Washer	9061	48	2	Decal - GF Depth Control D152	D1525
22	4	M16 × 50 Bolt	8616H	49	8	M16 x 55 Bolt 8603	8603H
23	ы	4000 Depth Rod Handle	A2500-02	50	ø	M16 Nut 9161	161
24	2	6 x 20 Roll Pin	9269	51	2		8718H
25	٢	4000 Leg Pivot Cover	A2500-03	52	٢	1/2" Chain Half Link ZCH	ZCH1/2L
26	5	M8 x 20 Bolt	8311H	53	٦	1/2" Chain Joiner Link   ZCH	ZCH1/2J
27	2	8mm Fender Washer	9032				
				O	( @		
						AITCHISON INDUSTRIES	
	C					EXPLODED VIEW DRAWING	
	۶)					PRODUCT: 4000 24Run Base Frame & Components Parts	Components
						DRAWN BY: Phil.W DATE: 17/07/2013 A2500-ASSY	2/2

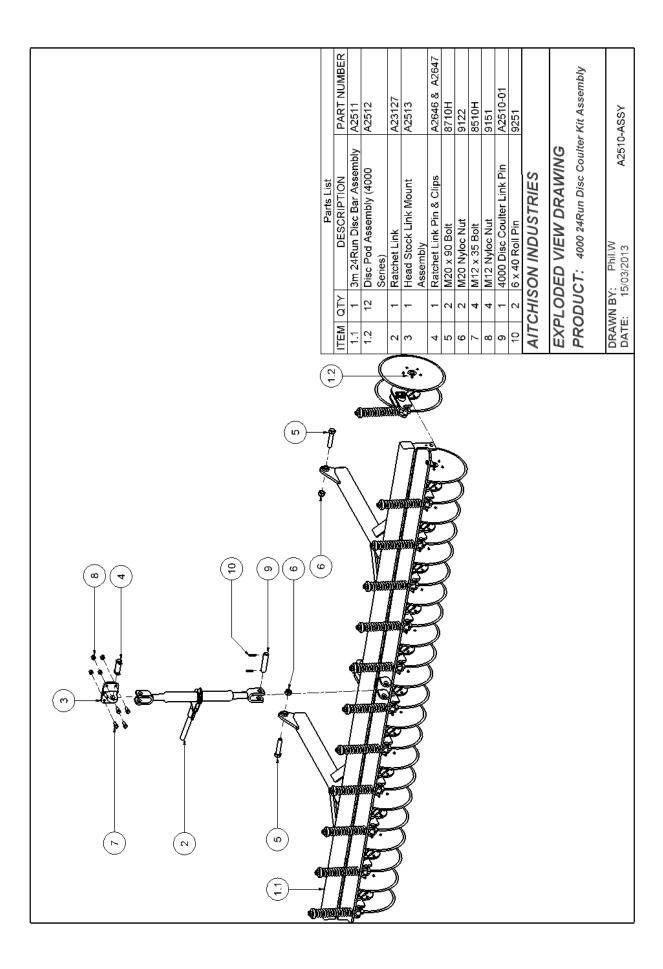


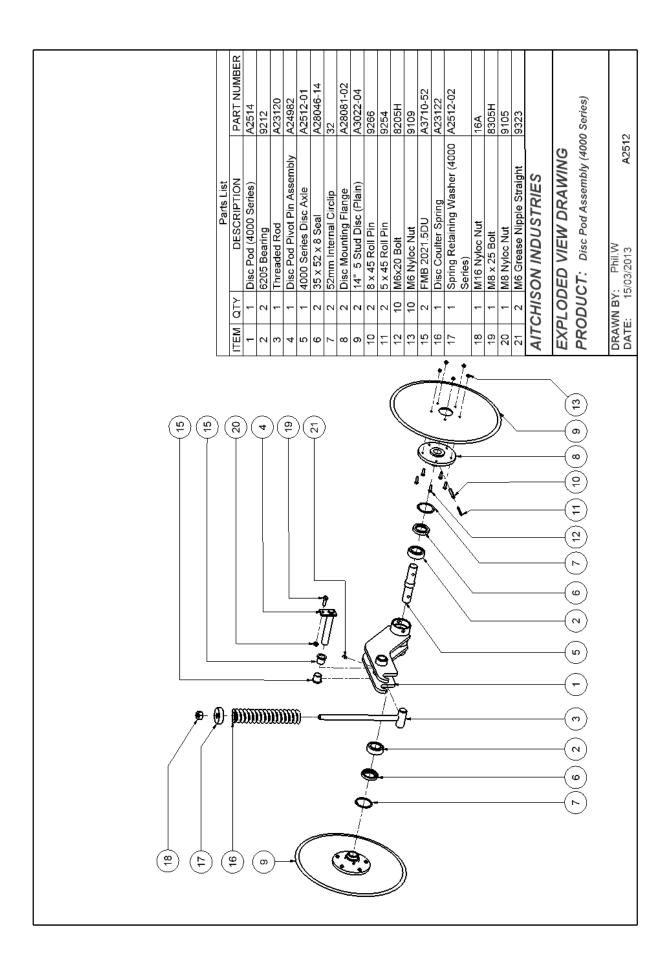
#### **SEED & FERTILISER MODELS**

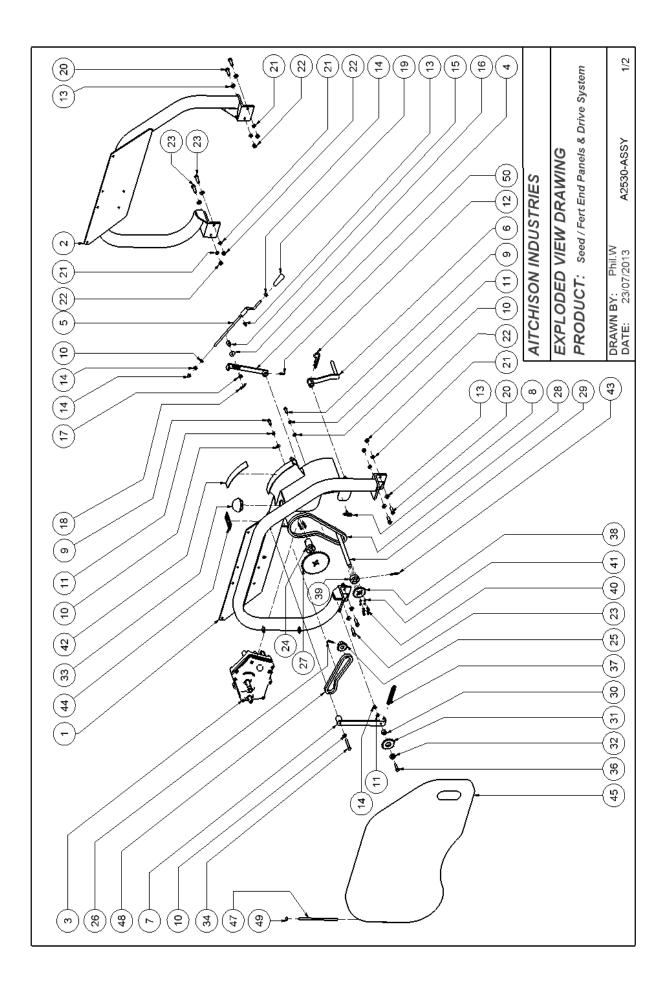


#### SEED ONLY MODELS

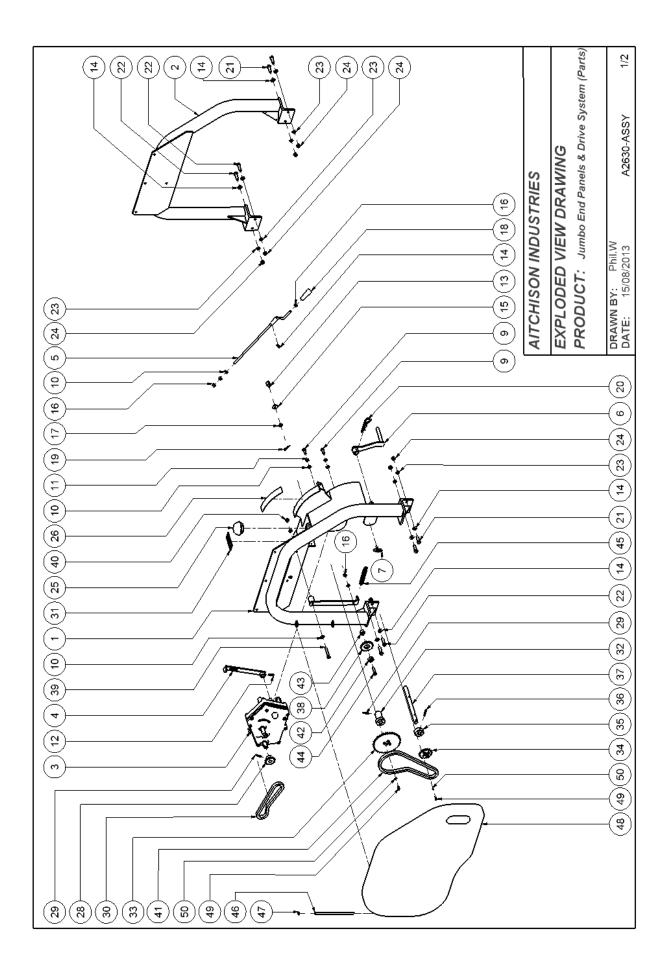
	Parts List
	ITEM QTY DESCRIPTION PART NUMBER
	1 1 MK3 Seed Only Coulter A28093
	Assembly
	2 1 MK3 Replacable Boot A3895
	3 1 MK3 25mm RH-DC Tine A3892L
	4 1 MK3 25mm LH-DC Tine A3892R
(°) ) ,	5 1 MK3 Tine Clamp Casting A3896
	6 1 65mm Saddle Clamp A3897
	7 1 M16 x 120 Bolt 8610H
	8 1 M16 x 60 Bolt 8604H
	9 2 M12 x 60 Bolt 8528H
<b>d →</b> - <b>P     + +</b> - <b>(</b> 12)	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
	EXPLODED VIEW DRAWING
	PRODUCT: MK3 Grassfarmer Tine Assembly Parts
L	DRAWN BY: Phil.W MK3 Tine Assy LH: A28092L-ASSY DATE: MK3 Tine Assy RH: A28092R-ASSY



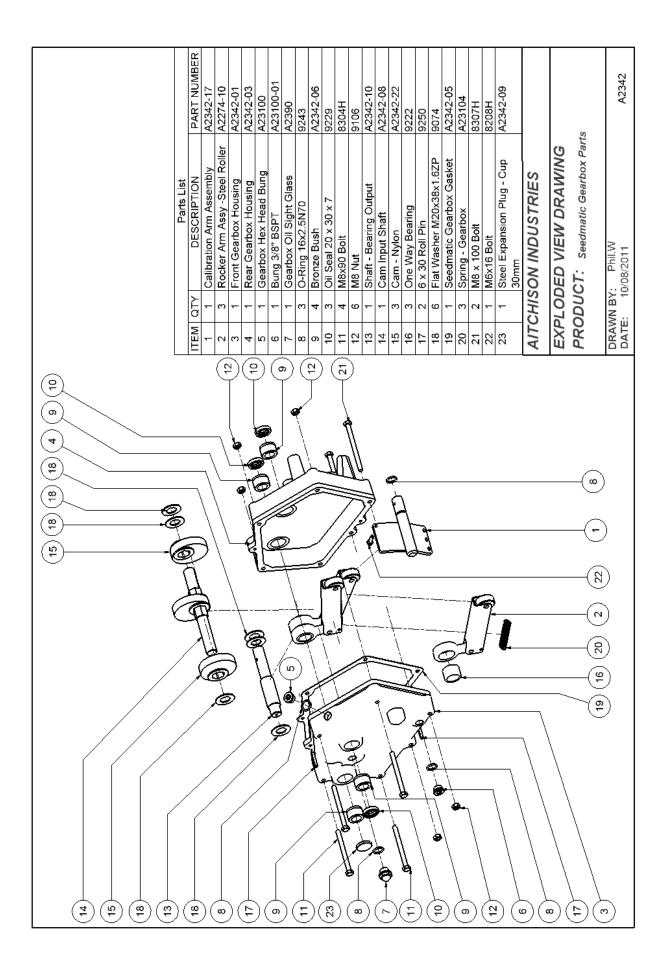


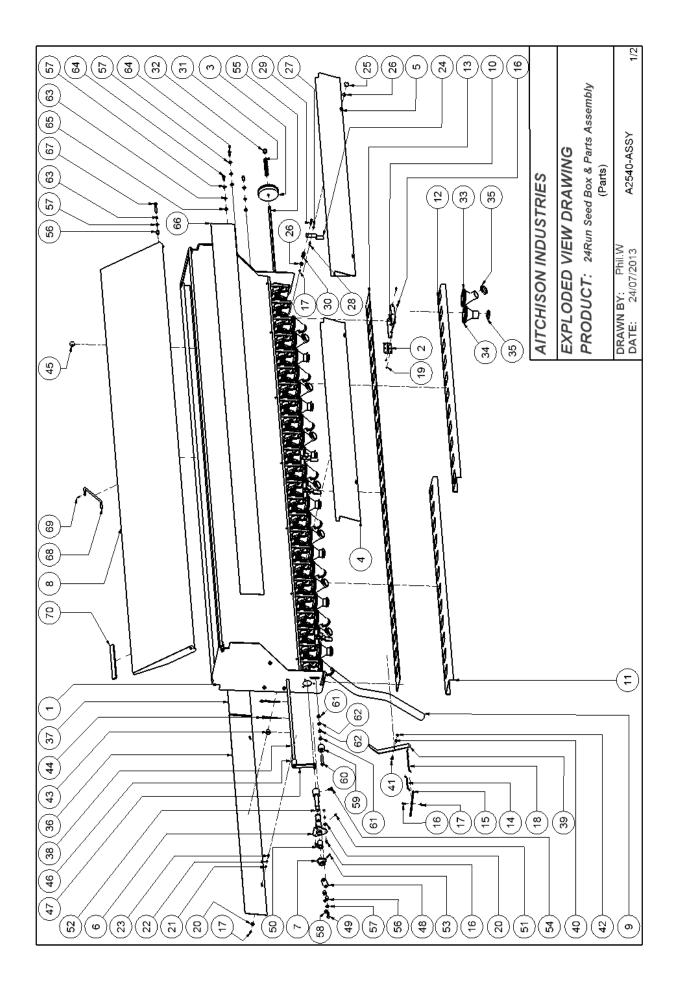


		Parts List				Parts List	
ITEM	aty	DESCRIPTION	PART NUMBER	ITEM	QTΥ	DESCRIPTION	PART NUMBER
٢	٢	4000 Seed & Fert D-End Panel Assembly	A2531	27	٢	38T Plate Sprocket ZP	A2344
6	-	4000 Seed & Fert Non-D-End Panel Assembly	A2532	28	-	4000 Gear Box Chain	A2530-06
m	-	GF/Roller Gearbox Assembly	A2342	29	-	4000 Seed&Fert Lay Shaft	A2530-01
4	-	Gearbox Calibration Pointer Assembly	A3570-04	30	-	4000 Seed&Fert G-B Tensioner Spacer	A2530-02
Ŋ	-	Seed Adjustor Lever Assembly	A2333	31	-	17T Plate Sprocket Tensioner	A2350-01
ဖ	-	Seed Calibration Handle	A230-25	32	-	6200 Bearing	9219
7	٢	4000 Gear Box Tensioner Arm Assembly	A2533	33	-	65mm Plastic Cap	A3719-03
ω	-	M8 Anti-Luce Fastener	A2821-07	34	-	M10 × 70 Bolt	8423H
თ	ю	M10 x 30 Bolt	8415H	35	-	M10 Nyloc Nut	9142
10	6	10 mm Flat Washer	9042	36	-	M10 x 45 Bolt	8404H
11	4	10mm Spring Washer	9041	37	-	Seed Agitator Spring	A2338
12	-	5mm R Clip	9289	38	-	17T Plate Sprocket 1/2"	A2347
13	6	12mm Flat Washer	9051	39	-	Sprocket Boss 3000 ZP	A2343-01
14	4	M10 Nut	9141	40	œ	M6 x 20 S/S Cap Screw	8202S
15	-	Swivel Collar	A2334	41	œ	6mm Spring Washer	9021
16	٢	M10 Fender Washer	9037	42	-	Gearbox Calibration Decal	D3032
17	-	10mm HD Flat Washer	9040	43	-	6 x 50 Roll Pin	9262
18	-	2mm R Clip	9282	44	-	Decal 4000 Rodent Stop	D4001
19	-	Plastic Knob Long	A2332	45	-	4000 Seed & Fert Drive Cover	A2530-04
20	4	M12 x 40 Bolt	8503H	46	-	M8 Nut	9106
21	ø	12mm Spring Washer	9052	47	-	4000 End Panel Hinge Pin	A2530-05
22	8	M12 Nut	9152	48		GB to SB Drive Chain	A2530-07
23	4	M12 x 45 Bolt	8504H	49	-	M10 Starlock Washer (Capped)	9045
24	-	70mm Sprocket Boss	A2070-01	50	-	6 x 30 Roll Pin	9250
25	٦	13T Sprocket 1/2" Pitch Boss 20ID	A2339-01	51	0	1/2" Chain Half Link	ZCH1/2J
26	2	6 x 40 Roll Pin	9251	52	2	1/2" Chain Joiner	ZCH1/2L
			- - - -				
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						AITCHISON INDUSTRIES	
						EXPLODED VIEW DRAWING	VG
			r -			PRODUCT: Seed / Fert End Panels & Drive System	iels & Drive System
		5					umbers)
		7				DRAWN BY: Phil.W DATE: 23/07/2013 A2530	A2530-ASSY 2/2

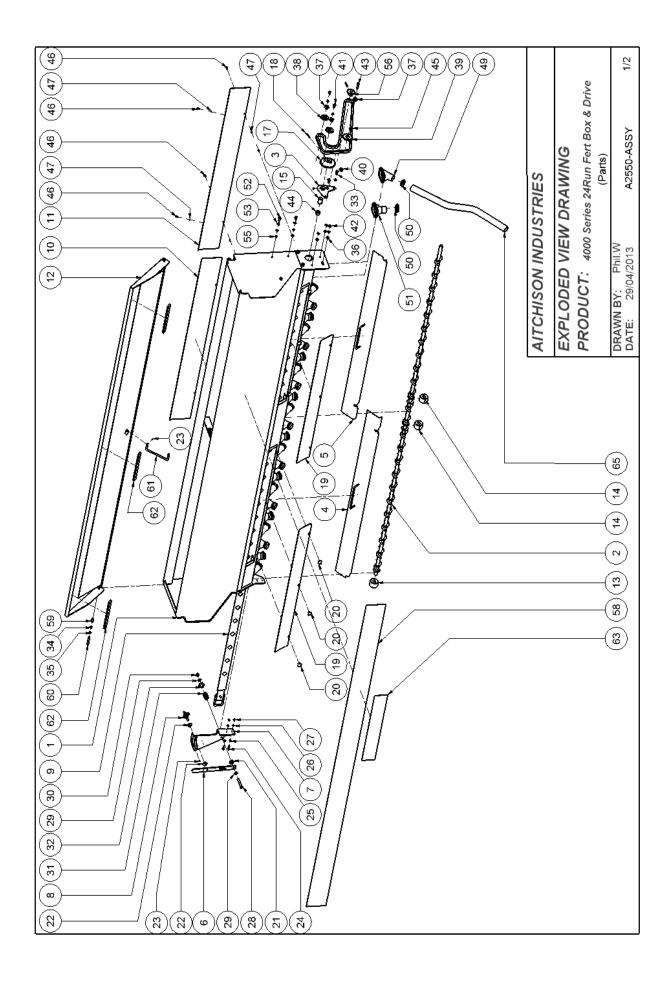


		Parts List				Parts List	
ITEM 0	QTY	DESCRIPTION	PART NUMBER	ITEM	ΩT∕	DESCRIPTION	PART NUMBER
-	-	4000 Jumbo Drive End Panel Assembly	A2631	27	-	M8 Nut	9106
2	-	4000 Jumbo N-Drive End Panel Assembly	A2632	28	-	13T Sprocket 1/2" Pitch Boss 20ID	A2339-01
m	-	GF/Roller Gearbox Assembly	A2342	29	2	6 x 40 Roll Pin	9251
4	<u>.                                    </u>	Gearbox Calibration Pointer Assembly	A3570-04	30	-	GB to SB Drive Chain	A2530-07
ഹ	-	Seed Adjustor Lever Assembly	A2333	31	-	Decal 4000 Rodent Stop	D4001
G	-	Seed Calibration Handle	A230-25	32	-	70mm Sprocket Boss	A2070-01
7	-	M8 Anti-Luce Fastener	A2821-07	33	-	38T Plate Sprocket ZP	A2344
œ	<del>.</del>	4000 Gear Box Tensioner Arm Assembly	A2533	34	-	17T Plate Sprocket 1/2"	A2347
თ	m	M10 x 30 Bolt	8415H	35	-	Sprocket Boss 3000 ZP	A2343-01
10	ە	10 mm Flat Washer	9042	36	-	6 x 50 Roll Pin	9262
11	4	10mm Spring Washer	9041	37	-	4000 Jumbo Lay Shaft	A2630-01
12	-	6 x 30 Roll Pin	9250	38	-	17T Plate Sprocket Tensioner	A2350-01
13	-	Swivel Collar	A2334	39	-	M10 × 70 Bolt	8423H
14	ი	12mm Flat Washer	9051	40	-	M10 Nyloc Nut	9142
15	<del>.</del>	M10 Fender Washer	9037	41	-	4000 Gear Box Chain	A2530-06
16	4	M10 Nut	9141	42	-	6200 Bearing	9219
17	~	10mm HD Flat Washer	9040	43	-	4000 Seed&Fert G-B Tensioner Spacer	A2530-02
18	-	Plastic Knob Long	A2332	77	٢	M10 x 45 Bolt	8404H
19	-	2mm R Clip	9282	45	1	Seed Agitator Spring	A2338
20	-	5mm R Clip	9289	46	<del>.</del>	4000 End Panel Hinge Pin	A2530-05
21	4	M12 × 40 Bolt	8503H	47	+	M10 Star Cap	9045
22	4	M12 × 45 Bolt	8504H	48	1	4000 Jumbo Drive Cover	A2630-02
23	80	12mm Spring Washer	9052	49	8	M6 x 20 S/S Cap Screw	8202S
24	8	M12 Nut	9152	50	8	6mm Spring Washer	9021
25	۰	65mm Plastic Cap	A3719-03	51	١	1/2" Chain Half Link	ZCH1/2L
26	-	Gearbox Calibration Decal	D3032	52	-	1/2" Chain Joiner	ZCH1/2J
					and the second sec	AITCHISON INDUSTRIES EXPLODED VIEW DRAWING PRODUCT: Jumbo End Panels & Drive System	G Drive System
						(Numbers) DRAWN BY: Phil.W	
						08/2013	A2630-ASSY 2/2

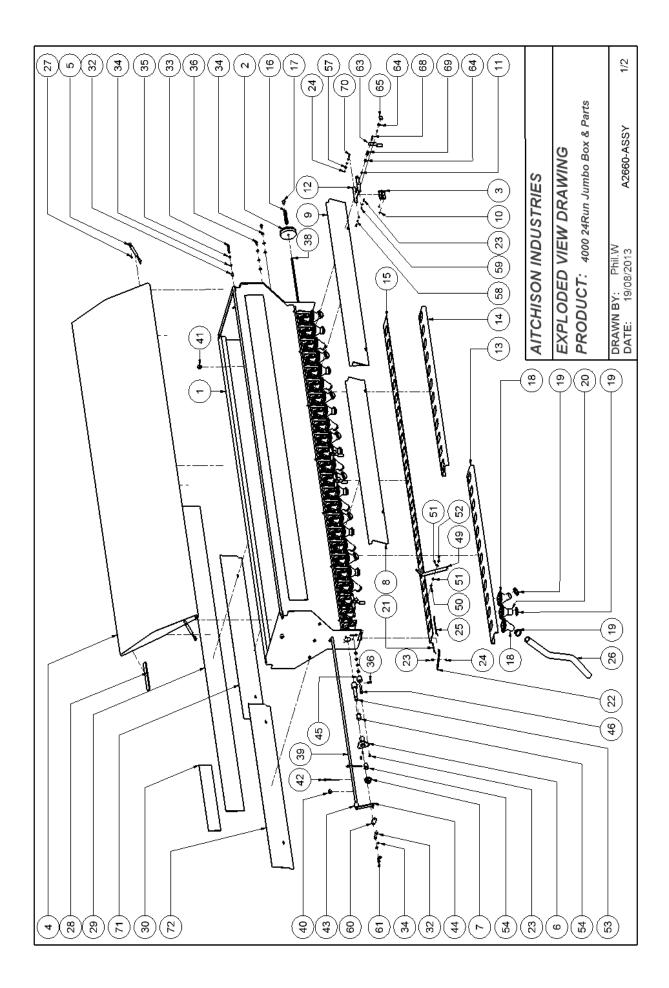




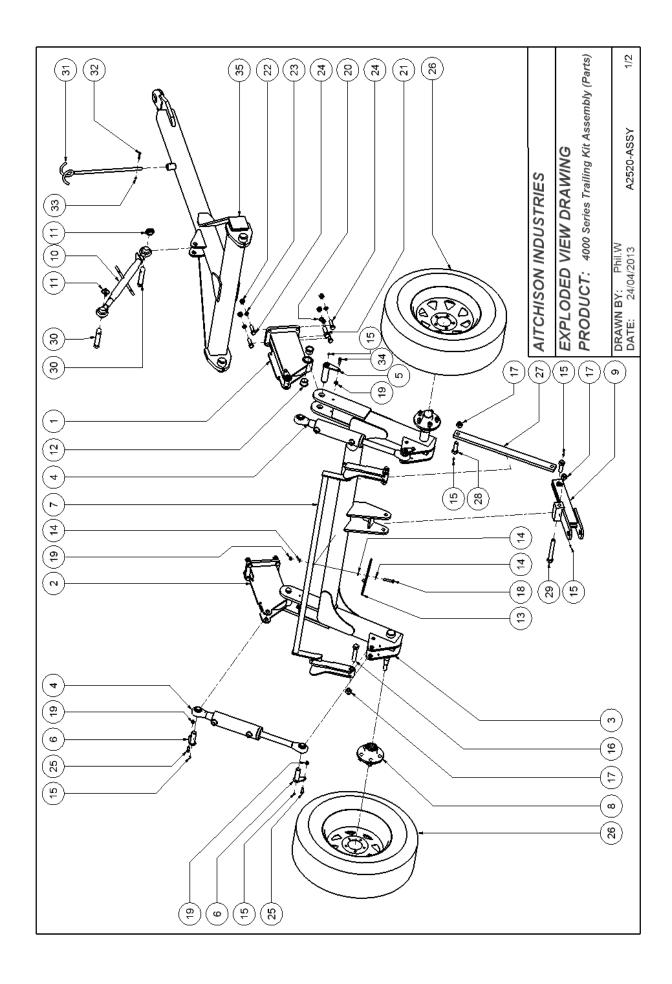
			5	DESCRIPTION	LARI NUMBER
eed Box Assembly	A2541	36	-	24Run Seed D-S Rear Inspection Panel	A2540-08
S/S Butt Hinge	A23805	37	-	24Run Seed Non-D-S Rear Inspection Panel	A2540-09
Pad & Disc	A2364	38		4000 24Run Agitator Shaft	A2540-10
Front D-S Calibration Panel Assembly	A2542	39	٢	4000 End Panel Rodent Handle	A2540-11
Front Non-D-S Calibration Panel Assembly	A2543	40	-	8mm Flat Washer	9031
haft Mount	A2337	4	-	M8 x 20 Bolt	8311H
rocket 1/2" Agitator Boss	A28025	42	-	M8 Nyloc Nut	9105
eries Seed Lid Assembly (24Run)	A2544	43	9	S 210M Flanged Bush	A2357
Seed Dropper Hose / Meter	A2384-01	44	24	Agitator Shart R Clip	A2359
eries Blank Off Plate Retainer	A2540-01	45	-	16mm Locking Collar	A2360
eries D-End Seed Tray (24Run)	A2540-02	46	-	Agitator Boss	A28034-02
eries Non-D-End Seed Tray (24Run)	A2540-03	47	-	4000 Adjatator Shaft Arm	A2540-12
eries Rodent Stop Slide (24Run)	A2540-04	48	-	Agitator Arm Link	A28008
eries Rodent Stop Link Wire	A2540-05	49	2	Agitator Link Bolt	A2618-04
teries Rodent Stop Link Arm	A2540-06	20	~	S 15 Flanged Bush	A2352
Bolt	8205H	5	-	M6 Grease Nipple Straight	9323
loc Nut	9109	52	-	Seed Shaft Axle	A2361
Series Rodent Stop Lever Wire	A2540-07	55	-	4000 24Run Seed Shaft	A2540-13
S Rivet	9302	26	4	S 206M Flanged Bush	A2355
ender Washer	9022	57	10	10 mm Flat Washer	9042
t	9121	58	-	M10 Nyloc Nut	9142
spring Washer	9021	59		Nylon Tensioner Roller	A2336-04
25 Bolt	8213H	60	-	M12 x 65 Bolt	8507H
Fray Clip	A3040-07	6	2	M12 Nut	9152
oss Knob	9122	62	2	12mm Flat Washer	9051
3/S Fender Washer	9022S	63	8	10mm Spring Washer	9041
S Nut	9121S	64	9	M10 x 25 Bolt	8418H
0 S/S Bolt	8205S	65	9	M10 Nut	9141
0 SS Bolt	8210S	99	-	3M Yellow Panel Decal	D1513
red Spinner Disc Spring	A4619	67	2	M10 x 65 Bolt	8417H
ad Spring	A2280-10	8	-	4000 Series Lid Stay	A2540-15
astic Bush	A2280-11	69	-	3 x 20 Roll Pin	9267
up Angled	A2290-13	70	3	Buffer Pad	A2375
up Straight	A2290-12	71	+	6 x 40 Roll Pin	9251
Crey Clip	A2370	72	-	M10 x 20 Bolt	8419H
				<b>AITCHISON INDUSTRIES</b>	
				EXPLODED VIEW DRAWING	
		n		PRODUCT: 24Run Seed Box & Parts Assembly (Numbers)	rts Assembly
at a set of the set of	j - 11 1			B	
	24Run Seed Box Assembly 3" x 2" S/S Butt Hinge Sponge Pad & Disc 24Run Front Don-D-S Calibration Panel Assembly 24Run Front Non-D-S Calibration Panel Assembly 24Run 1:1 Sprocket 1/2" Agitator Boss 366d Shaft Mount 1:1 Sprocket 1/2" Agitator Boss 4000 Series Seed Lid Assembly (24Run) 35mm Seed Dropper Hose / Meter 4000 Series Blank Off Plate Retainer 4000 Series Rodent Stop Link Virie 4000 Series Rodent Stop Link Kire 4000 Series Rodent Stop Link Kire 6:8 S/S Rivet 6:8 S/S Rivet 6:8 S/S Rivet 6:0 Tray (24Run) 4:0 Series Rodent Stop Link Kire 6:8 S/S Rivet 6:0 Sister Rodent Stop Lever Wire 6:8 S/S Rivet 6:0 Sister Rodent Stop Lever Wire 6:8 S/S Rivet 6:0 Sister Boot 6:0 Sister Boot 7:0 Sister Boot 7:0 Sister Boot 7:0 Sister Bush 7:0 Crey Clip 7:0 For Clip 7:0 For Spring 7:0 Plastic Bush 7:0 Sim Crey Clip	d Box Assembly Butt Hinge d & Disc at D-S Calibration Panel Assembly it Non-D-S Calibration Panel Assembly Mount Mount Second Education Panel Assembly Mount Second Education Panel Assembly Mount Second Education Boss Second Education Second Education Second Education Second Education Second Education Second Stop Link Wire Second Stop Lever Wire Second Stop Link Wire Second Stop Link Wire Second Stop Lever Wire Secon	d Box Assembly A2541 Butt Hinge A2543 at Hinge A2543 at Un Panel Assembly A2543 at Non-D-S Calibration Panel Assembly A2543 at Non-D-S Calibration Panel Assembly A2543 At Non-D-S Calibration Panel Assembly A2543 at 1/2" Agitator Boss A28025 at Non-D-End Seed Ling (24kun) A2540-01 5 Blank Off Plate Retainer A2540-01 5 Blank Off Plate Retainer A2540-01 5 Blank Off Plate Retainer A2540-01 5 Non-D-End Seed Tray (24kun) A2540-05 5 Rodent Stop Link Arm A2540-05 5 Rodent Stop Link Arm A2540-06 6 Rodent Stop Link Arm A2540-05 6 Rodent Stop Link Arm B2260-05 6 Rodent Stop Link Arm B2260-05 7 Clip A2540-07 7 Blate Baiter A2540-07 7 Clip A2540-07 8 Bolt B205 Biol B121 9022 8 Bolt B205 Biol A2560-01 8 Bolt A2280-13 7 Clip A2280-13 7 Clip A2280-13 8 Bolt A2280-13 7 Clip A2280-13 7 Cli	d Box Assembly A2541 36 d Box Assembly A2541 36 d Box Assembly A2542 39 d Box Assembly A2543 37 d B Disc. A2360 37 d B Disc. A2360 37 d B Disc. A2361 40 d B Disc. A2361 41 d A Disc. A261 41 d A Disc. A1 d A Di	Bulk Hinge         Az541         36         1         24Run Seed ID           But Hinge         A23805         37         1         24Run Seed ID           But Hinge         A23805         38         1         4000 Entra Seed ID           It DS: Calibration Panel Assembly         A2543         39         1         4000 Entra Vent Ravisation Panel Assembly           It DS: Calibration Panel Assembly         A2337         41         1         Mis Nyton Nut           River Nut         A2337         41         1         Mis Nyton Nut           Seed Libration Panel Assembly         A2334         41         48         24         Aptiliator Shart In Not           Bill Not Plate Retainer         A2340-01         45         1         Mis Nyton Nut         256         1         Aptiliator Shart In Not           Bank Off Plate Retainer         A2340-01         43         4         1         4000 Adjatator           Bank Off Plate Retainer         A2340-01         43         4         1         Aptiliator Shart In Not           Bank Off Plate Retainer         A2340-01         43         2         1         Mis Not           Bank Off Plate Retainer         A2340-01         43         2         1         1         0<00



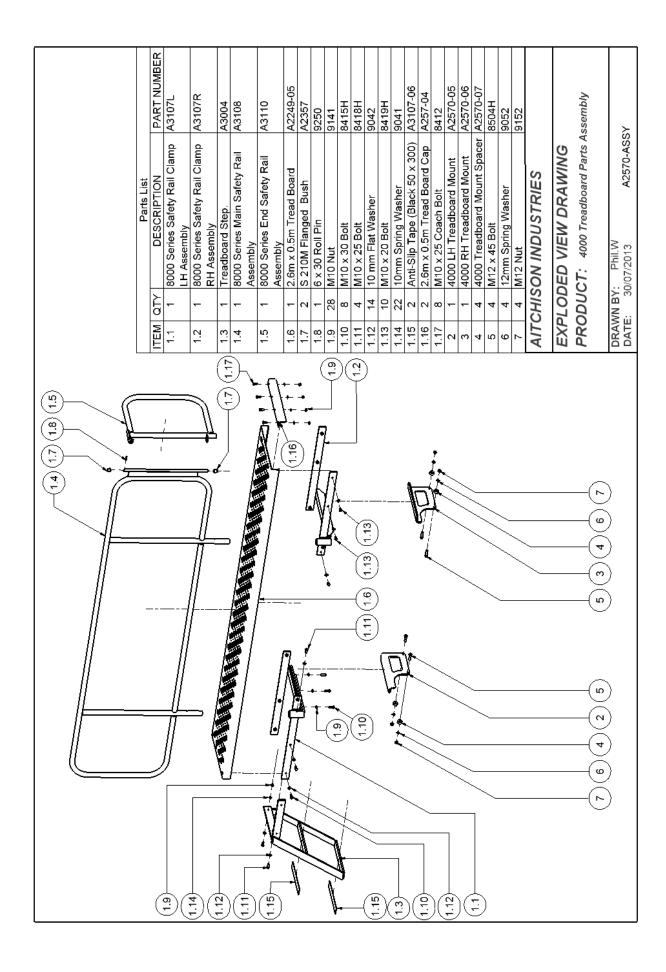
		Parts List				Parts List	
ITEM	QTΥ	DESCRIPTION	PART NUMBER	ITEM	QTΥ	DESCRIPTION	PART NUMBER
1	-	4000 24Run Complete Fert Box Assembly	A2551	35	7	10mm Spring Washer	9041
2	1	4000 24Run Fert Auger Assembly	A2554	36	3	M10 Nut	9141
з	٦	4000 Fert Auger Drive Mount Assembly	A2555	37	3	6200 Bearing	9219
4	-	4000 24Run LH Fert Baffle Assembly	A2556LH	38	2	13T 1/2" Pitch Idler Sprocket	A2550-05
5	٢	4000 24Run RH Fert Baffle Assembly	A2556RH	39	٢	17T Plate Sprocket Tensioner	A2350-01
9	-	Fertiliser Control Arm	A23142	40	٦	4000 Fert Auger Tensioner Boss	A2550-02
7	-	Fertiliser Control	A23143	42	-	10mm HD Flat Washer	9040
80	1	M10 Fert Adjuster Handle	A23145	43	٢	M10 x 45 Bolt	8404H
6	-	4000 24Run Fert Slide Assembly	A2558	44	-	7/8" Shaft Collar (22mm)	A23148
10	-	4000 24Run LH Fert Slide Cover Assembly	A2560LH	45	1	4000 Fert Box Drive Chain	A2550-04
11	-	4000 24Run RH Fert Slide Cover Assembly	A2560RH	46	8	M6 x 16 Bolt	8208H
12	1	4000 Series Seed Lid Assembly (24Run)	A2544	47	8	6mm Spring Washer	9021
13	٦	4000 Series End Auger Bush	A2556	48	4	M6 Nut	9121
14	2	4000 Series Central Auger Bush	A2557	49	16	Round Cup Angled	A2369
15	٦	S 15 Flanged Bush	A2352	50	24	35mm Crey Clip	A2370
16	1	M6 Grease Nipple Straight	9323	51	8	Round Cup Straight	A2368
17	-	27T Sprocket Half Inch Pitch 7/8" Bore	A23130	52	9	M10 x 25 S/S Bolt	8418S
18	1	6 × 50 Roll Pin	9262	53	9	10mm S/S Flat Washer	9039S
19	2	4000 24Run Trough Removable Panel	A2550-01	54	9	10mm S/S Spring Washer	9041S
20	9	M6 Cross Knob	9122	22	9	M10 S/S Nut	9141S
21	-	10mm Spacer	A23142-01	56	٢	13T Sprocket 1/2" Pitch Boss 20ID	A2339-01
22	2	M10 Fender Washer	9037	58	1	3M Yellow Panel Decal	D1513
23	2	3 × 20 Roll Pin	9267	59	2	S 206M Flanged Bush	A2355
24	2	M8 x 25 Bolt	8305H	60	2	M10 × 65 Bolt	8417H
25	2	8mm Flat Washer	9031	61	1	4000 Series Lid Stay	A2540-15
26	2	8mm Spring Washer	9030	62	з	Buffer Pad	A2375
27	2	M8 Nut	9106	63	-	Decal "SEEDMATIC"	D1510
28	-	M12 × 90 Bolt	8524H	64	-	Decal "4124CT"	D4002
29	2	12mm Flat Washer	9051	65	-	35mm Seed Dropper Hose / Meter	A2384-01
30	-	M12 Nyloc Nut	9151	66	-	1/2" Chain Joiner	ZCH1/2J
31	-	Fert Leaver Spring	A23146	67	-	1/2" Chain Half Link	ZCH1/2L
32	-	S 179M Plastic Bush	A23142-02	68	1	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				
			Ļ			<b>AITCHISON INDUSTRIES</b>	5
				ľ	a.		
						EXPLODED VIEW DRAWING	VING
		IJ		<b>A</b>	*	PRODUCT: 4000 Series 24Run Fert Box & Drive	un Fert Box & Drive
					F h		nbers)
				!		DRAWN BY: Phil.W DATE: 29/04/2013 A2550-ASSY	SSY ISSUEB 2/2
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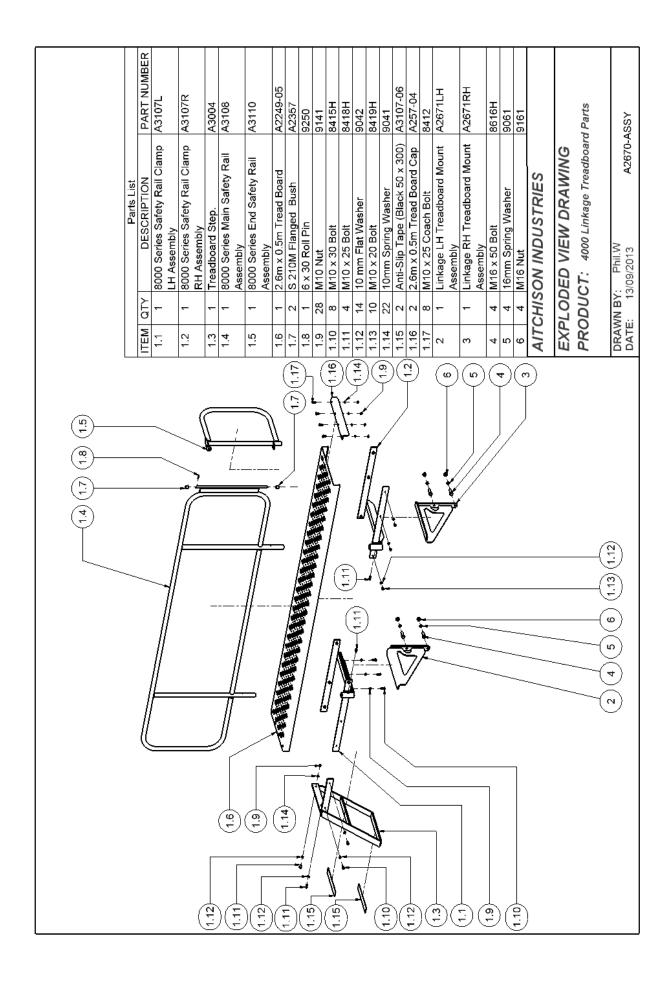


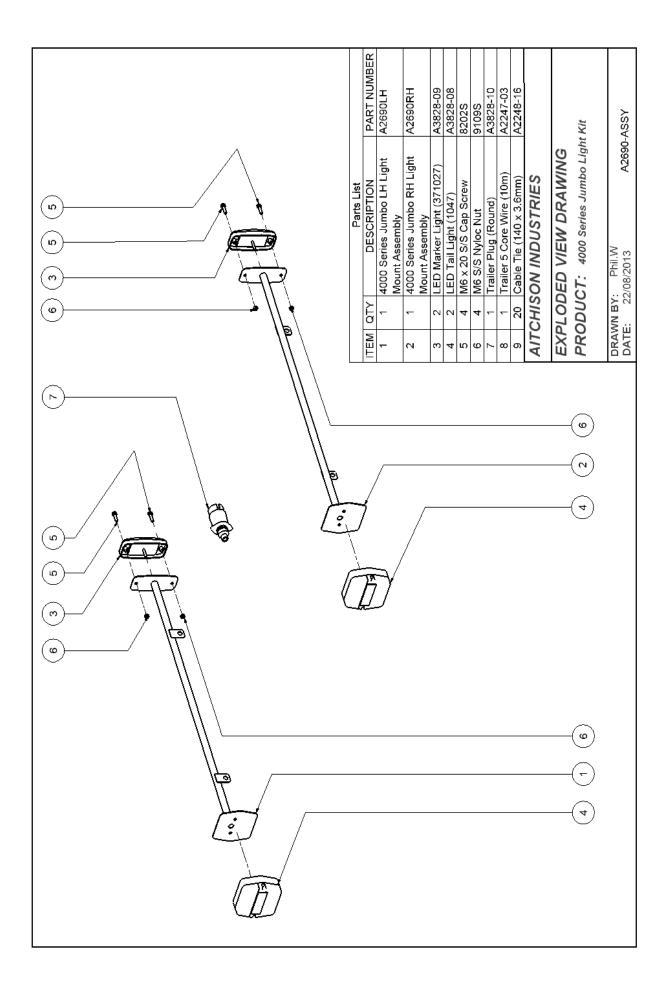
1         1         2011<	Ν	ž	DESCRIPTION	PART NUMBER	TEM	Z	DESCRIPTION	PART NUMBER
2         Species         Species         Constant Sector         Constan	-	-	24Run Jumbo Box Assembly (4000)	A2661	37	œ	M10 Nut	9141
1         3         1         4000 Setsion Seturity (Alton)         26590         33         1         4000 Setsion Seturity (Alton)         26591           2         Event (Fries aspro- set)         2600 Seturity (Alton)         2630         41         1         666 Mink (Maser Mole) (Alton)         2630           1         13         Set Statif (Maser Mole) (Alton)         2630         43         1         Mole Set Mink (Maser Mole) (Alton)         2630           1         13         Set Statif (Maser Mole) (Alton)         2630         43         1         Mole Set Mink (Maser Mole) (Alton)         2630           1         2400 Set Meter Mole         2640         41         1         000 Set Mink (Maser Mole) (Alton)         2630           1         2400 Set Meter Mole         2640         41         1         000 Set Meter Mole         2630           1         400 Set Meter Mole         2630         41         2         1         2630           2         8         400 Set Meter Mole         2630         27         1         2630           2         8         400 Set Meter Mole         22300         2         1         2600 Set Meter Mole         2530           3         400 Set Meter Mole         22300	2	24	Sponge Pad & Disc	A2364	88	-	4000 24Run Seed Shaft	A2540-13
1         2         2         4         0         5         5         3         4         0         5         3         4         1         1         2000         4         1         1         6         1         2000         4         1 </td <td>e</td> <td>4</td> <td>3" x 2" S/S Butt Hinge</td> <td>A23805</td> <td>39</td> <td>-</td> <td>4000 24Run Agitator Shaft</td> <td>A2540-10</td>	e	4	3" x 2" S/S Butt Hinge	A23805	39	-	4000 24Run Agitator Shaft	A2540-10
1         Service         42         1         1         Concord Coler         72360           1         1         2740-00-00         42         1         0	4	-	4000 Series Jumbo Lid Assembly (24Run)	A2664	40	9	S 210M Flanged Bush	A2357
1         1 Seed Shift Mondi         A3337         4 2         3 Agric Shift Clip         A2333         A 2         A spect Shift Clip         A 3333         A 3         B 3 <th< td=""><td>5</td><td>7</td><td>Ezy Lift Gas Stay</td><td>A3041-02</td><td>41</td><td>-</td><td>16mm Locking Collar</td><td>A2360</td></th<>	5	7	Ezy Lift Gas Stay	A3041-02	41	-	16mm Locking Collar	A2360
1     1240.0.127. Agitabre Bess.     A2800.5     43     1     Agitabre Bess.     A2800.402       1     24Run Frein D-S Calibration Panel Assembly     A2543     45     1     Nuo. Tensioner Roler.     A2350.12       1     5 45.8 Nyeer     6 5.9 S Nyeer     A2543     45     1     Nuo. Tensioner Roler.     A2350.12       2     400.5 Series D-End Sear Tay (24Run)     A2540.2     47     1     A00.7 Series D-End Sear Tay (24Run)     A2350.1       1     400.5 Series D-End Sear Tay (24Run)     A2340.01     51     1     Muo. Tensioner Roler.     A2360.11       1     400.5 Series D-End Sear Tay (24Run)     A2340.21     51     1     Muo. Series D-End Sear Tay (24Run)     A2360.11       2     400.5 Series D-End Sear Tay (24Run)     A2340.11     A2340.12     A2340.11     A2340.11       1     4000 Series Rotent Spoil     A2340.11     A2340.12     A2340.11     A2360.11       2     8 Series Rotent Spoil     A2340.12     A2340.12     A2340.11     A2340.11       2     8 Series Rotent Spoil     A2340.12     A2340.11     A2360.11       3     4 Seer Spoil     A2340.12     A2340.12     A2340.11       4     4 Seer Spoil     A2340.12     A2340.12     A2340.12       1     4 Seer Spoili S	9	-	Seed Shaft Mount	A2337	42	24	Agitator Shart R Clip	A2359
1     24Ant Frent Norus Calination Parel Assembly     2545     44     1     4000 States Charation Parel Assembly     2540     2450     240     1     24000     2400     1     24000     2400     1     24000     2400     1     24000     2400     2     27000     2400     2000     2400     1     2000     2400     2     27000     2400     20	7	٢	13T Sprocket 1/2" Agitator Boss	A28025	43	1	Agitator Boss	A28034-02
1         248         1         Nyor Tensioner Roler         2035 0.04           2         M6 55 Nyoe Mut         2000         47         2         M12 x6 56 0.04         912         2000           2         M6 55 Nyoe Mut         20005         47         2         M12 x6 56 0.04         912         2000           1         4000 Series Dian K0 Plan Retainer         A2540-03         50         1         M12 x6 56 0.04         913         9131           2         String - Moore Sponge Pad         A2540-03         50         1         M12 x6 56 0.04         931         1141           2         String - Moore Sponge Pad         A2560-10         53         1         M12 x4 56 0.04         9311         1141           2         String - Moore Sponge Pad         A2560-10         53         1         M6 Shight Greek Moht         1031         1141           2         String - Moore Sponge Pad         A2560-10         53         1         M6 Shight Greek Moht         1031         1031           2         String - Moore Sponge Pad         A2560-10         53         1         M6 Shight Greek Moht         1031         1031           2         String - Moore Sponge Pad         A2560-10         53         1 </td <td></td> <td>-</td> <td>24Run Front D-S Calibration Panel Assembly</td> <td>A2542</td> <td>44</td> <td>-</td> <td>4000 Adjatator Shaft Arm</td> <td>A2540-12</td>		-	24Run Front D-S Calibration Panel Assembly	A2542	44	-	4000 Adjatator Shaft Arm	A2540-12
6         6         6         6         75         7.00         1         7.00         100	6	٢	24Run Front Non-D-S Calibration Panel Assembly	A2543	45	1	Nylon Tensioner Roller	A2336-04
2       MeSS Nyber Mut       91065       47       2       M12 Mut       91055         1       4000 Series D-End Seed Tary (24Run)       2530-02       49       1       4000 Enr Parel Robert       9031         1       4000 Series D-End Seed Tary (24Run)       2530-02       49       1       4000 Enr Parel Robert       9031         1       4000 Series D-End Seed Tary (24Run)       2530-02       49       1       4000 Enr Parel Robert       9031         2       5       5       91       2       Mm Yasher       9031         2       5       9       1       2       Mm Yasher       9031         2       5       9       1       2       Mm Yasher       9031         2       5       9       1       800 Enr Parel       2351       903         2       5       9       1       800 Find       2351       903         3       6       1       400 Find       2351       903       903         4       1       4000 Series Robert Specific (44Run)       2320-13       54       5       5       15       803       803       803       803       803       803       803       803       803	0	œ	6-8 S/S Rivet	9302	46	-	M12 x 65 Bolt	8507H
1         4         4000 Series Eland, CIP late Retainer         23540-01         48         1         10000 Flate Retainer         1001           1         1000 Series Eland, CIP late Retainer         A2540-01         50         1         M6x 20 Bent         1001         1031           2         1         4000 Series Floaten Step (all (Afkun)         A2540-04         51         1         M6x 20 Bent         1001         1031           2         1         4000 Series Redent Step (all (Afkun)         A2540-04         51         1         M6x 20 Bent         1031           2         1         1         4000 Series Redent Step (all (Afkun)         A2540-04         51         1         M6x 20 Bent         2333           2         1         1         4000 Series Redent Step Link Wite         A2230-11         53         1         6         40 Retainer         A2330           2         1         4000 Series Redent Step Link Wite         A2240-05         57         1         6         40 Retainer         4333           3         1         4000 Series Redent Step Link Wite         A2340-06         57         1         6         40 Retainer         4336           1         4000 Series Redent Step Link Wite         A2340-06	-	2	M6 S/S Nyloc Nut	9109S	47	2	M12 Nut	9152
1         1         0000 Series Pcad Seed Tray (24Run)         22540-02         49         1         4000 Series Monto-End Seed Tray (24Run)         22540-01         57         2         0 mix 10 Monto-End Seed Tray (24Run)         22540-01         50         2         0 mix 10 Monto-End Seed Tray (24Run)         22540-01         51         2         0 mix 10 Monto-End Seed Tray (24Run)         22540-01         51         2         0 mix 10 Monto-End Seed Tray (24Run)         22540-01         51         2         0 mix 10 Monto-End Seed Tray (24Run)         22540-01         51         2         0 mix 10 Monto-End Seed Tray (24Run)         22540-01         51         2         0 mix 10 Monto-End Seed Tray (24Run)         22540-01         51         2         0 mix 10 Monto-End Seed Tray (24Run)         22540-01         52         1         8         Monto-End Seed Tray (24Run)         22560-13         53         1         6 Monto-End Seed Tray (24Run)         22560-13         53         1         6 Monto-End Seed Tray (24Run)         22561-13         2231         2232	2	4	4000 Series Blank Off Plate Retainer	A2540-01	48	2	12mm Flat Washer	9051
1         1         0000 Series Rendr. Sped Tary, (24kun)         22540-06         51         2         1         88         1	e	-	4000 Series D-End Seed Tray (24Run)	A2540-02	49	-	4000 End Panel Rodent Handle	A2540-11
1       1       0000 Series Rodent Stop Silde (24Run)       22540.04       51       2       1       MM Shife       9001         24       8 Pinative Keiner       22260-11       53       1       8 Ming Much Mut       22360-1       523         24       8 Pinative Keiner       22260-11       53       1       8 Keiner       22360-1       233         24       8 Pinative Keiner       2230-11       53       1       8 Keiner       22360-1       233         24       8 Finative Keiner       2230-13       56       1       106 String Keiner       2333-         25       7       600 Series Rodent Stop Link Wine       2230-13       56       1       106 String Keiner Washer       903         1       4000 Series Rodent Stop Link Mine       2230-13       56       1       106 String Keiner Washer       903         1       4000 Series Rodent Stop Link Mine       2230-14       53       1       106 Nut       903         1       4000 Series Rodent Stop Link Mine       2230-13       56       1       106 Nut       902         1       4000 Series Rodent Stop Link Mine       2334-01       63       61       1       107       903         2       1	4	-	4000 Series Non-D-End Seed Tray (24Run)	A2540-03	20	-	M8 × 20 Bolt	8311H
24       Sping - Woree Sponge Fad       A2280-10       52       1       Mi Nyloo Nutt       9105         16       8       8       16       Naged Staft Aute       A2280       7       34       16       1005         16       8       10       65       1       16       Nice Store       2001       53       1       10       2035         1       1       4000 Series Rodent Stop Link Mire       A2230-10       55       1       16       16       10       2035       10       2035       10       2035       10       2035       10       2035       10       2036       10       10       2036       10       2036       10       10       2036       10 <td>5</td> <td>٦</td> <td>4000 Series Rodent Stop Slide (24Run)</td> <td>A2540-04</td> <td>51</td> <td>2</td> <td>8mm Flat Washer</td> <td>9031</td>	5	٦	4000 Series Rodent Stop Slide (24Run)	A2540-04	51	2	8mm Flat Washer	9031
24         S P flastic Bush         A2280-11         53         1         Seed Shaft Axle         A2361           24         5 Frit Cup Angled         A2390-13         56         1         Mis Stright Crease Nipple         A2352           24         5 Frit Cup Angled         A2390-13         56         1         Mis Stright Crease Nipple         A2352           16         Fert Cup Angled         A2390-12         56         1         Mis Stright Crease Nipple         922           16         Misco Boit         A2340-05         57         1         Misco Boit         923           16         Misco Boit         A2340-05         57         1         Misco Boit         923           16         Misco Boit         A2340-05         57         1         Misco Boit         923           1         4000 Series Rodent Stop Lever Wire         A2340-05         57         1         Misco Boit         923           2         3 Misco Boit         A2340-05         57         1         Misco Boit         923           3         Boit Free         A2340-05         56         4         Misco A         924           3         Boit Free         A2336         64         A60001	9	24	Spring - Moore Sponge Pad	A2280-10	52	-	M8 Nyloc Nut	9105
16         Fert Cup Angled         A2290-13         54         2         5 15 Flanged Bush         A2352           24         Samm CopyClip         A2390-15         56         1         Missinght Greases Nigple         9231           1         4000 Series Rodent Stop Link Wine         A2390-15         56         1         Missinght Greases Nigple         9323           1         4000 Series Rodent Stop Link Wine         A2340-06         57         7         Min Spring Washer         9321           1         4000 Series Rodent Stop Link Wine         A2340-06         57         7         Min Spring Washer         9321           1         4000 Series Rodent Stop Link Wine         A2340-06         57         1         Min Spring Washer         9321           2         Mi Nunc         2364-01         52         1         Min Spring Washer         9121           3         Min Spring Washer         A334-01         52         4         A3440-07         9121           3         Min Spring Washer         A334-01         52         4         Min Divice Nunc         9122           3         Min Spring Washer         A334-01         52         4         Min Divice Nunc         9122           3         Min Mi	7	24	S 9 Plastic Bush	A2280-11	53	1	Seed Shaft Axle	A2361
24         35mm Crey Clip         32370         55         1         6 × 40 Roli Pin         3237           1         8         Fert Cup Straight Greenes Nuple         2920-12         55         7         6 mm Spring Washer         9022           1         4000 Series Rodent Stop Link Wire         Z230-12         56         1         6 mm Spring Washer         9023           1         4000 Series Rodent Stop Link Wire         Z234-06         58         1         8 miSpring Washer         9021           1         4000 Series Rodent Stop Lever Wire         Z234-01         61         2         Agitator Link Bolt         A2300-01           1         4000 Series Rodent Stop Lever Wire         Z234-01         62         4         MiO Njoic Nut         9121           2         Mi Sin Series Rodent Stop Lever Wire         Z234-01         62         4         MiO Njoic Nut         9123           3         Buffer Pad         Z2355         64         8         6m Sin Sin         4         800-01           1         Deal '4024''         Diaget Hand         Diaget Han         9121         9121           2         Milen Pad         Z3375         64         4         85.Nut         91215           1	8	16	Fert Cup Angled	A2290-13	54	2	S 15 Flanged Bush	A2352
6         Fert Cue Straight         2230-12         56         1         M6 Stright Grease Nupple         9223           1         4000 Series Rodent Stop Link Mire         22540-05         57         7         6 mm Spring Washer         9021           16         M600 Series Rodent Stop Link Arm         22540-05         57         7         6 mm Spring Washer         9021           16         M600 Series Rodent Stop Link Arm         2205H         59         19         M6 Nut         9121           1         M6x:20 Boit         2205H         59         10         Main Mire         9230-07         9121           2         M6 Hair         2530-05         62         4         M6 Nut         2364-07         9142           3         M7 Below Panel Decat         2334-01         62         4         M6 Cross Knob         9123           3         M7 Below Panel Decat         D1510         64         4         M6 S S S Boit         9125           1         D ceal "SEEMATIC"         D1610         65         4         M6 S S S Boit         9125           1         D ceal "SEEMATIC"         D1610         66         4         M6 S S S Boit         9125           1         D ceal "SEEMATIC" </td <td>6</td> <td>24</td> <td>35mm Crey Clip</td> <td>A2370</td> <td>55</td> <td>1</td> <td>6 x 40 Roll Pin</td> <td>9251</td>	6	24	35mm Crey Clip	A2370	55	1	6 x 40 Roll Pin	9251
1       4000 Series Rodent Stop Link Wire       22540-05       57       7       6mm Fender Washer       9021         1       4000 Series Rodent Stop Link Amm       22540-05       57       7       6mm Formog Washer       9021         1       6000 Series Rodent Stop Link Amm       22540-05       58       19       6mu       9021         5       M6 Nyloc Nut.       2059       60       1       Agitator Am Link       9121         2       M8 Hair Nut       23540-07       62       2       Agitator Am Link       23306         3       More Nut.       23375       64       4       Seed Tray Clip       9123         3       Mufer Paral       Decal       23375       64       4       M6 Coss Knob       9125         1       Decal "SEEDMATIC"       D1510       66       4       M6 Coss Knob       9126         1       Decal "SEEDMATIC"       D1510       66       4       M6 Coss Knob       91215         12       Decal "SEEDMATIC"       D1510       66       4       M6 Coss Knob       91215         12       Decal "SEEDMATIC"       D1510       66       4       M6 Coss Knob       91215         13       Decal "SEEDMATIC"	0	80	Fert Cup Straight	A2290-12	56	-	M6 Stright Grease Nipple	9323
1       4000 Series Fodent Stop Link Amm       A2540-06       58       19       6m Spring Washer       9121         1       6000 Series Fodent Stop Link Amm       A2540-05       58       19       M6 Nut       A2540-07       61       2       Agitator Link Bolt       A25610-07       9121         1       35mm Seed Dropper Hose / Meter       A2540-07       61       2       Agitator Link Bolt       A2610-07       9142         2       38 Malf Nut       A2375       64       8       6m S/S Fender Washer       9020-07         3       Buffer Pad       A2375       64       8       6m S/S Fender Washer       9122         2       3M Yellow Panel Decal       D1513       65       4       M6 Cross Knob       9122         1       Decal "SEEDMATIC"       D4003       66       4       M6 S/S Solt       9122         2       MY felow Panel Decal       D1513       65       4       M6 S/S Solt       9122         1       Decal "SEEDMATIC"       D4003       66       4       M6 S/S Solt       9122         2       MYO KASE       A2060       10       10       10       10       10       10       200-07         1       Decal "SEEDMATIC" </td <td>-</td> <td>-</td> <td>4000 Series Rodent Stop Link Wire</td> <td>A2540-05</td> <td>57</td> <td>4</td> <td>6mm Fender Washer</td> <td>9022</td>	-	-	4000 Series Rodent Stop Link Wire	A2540-05	57	4	6mm Fender Washer	9022
16         M6x20 Belt         59         19         M6 Mut           5         M6 Nyloc Nut         9103         66         1         Agitator Mut Bolt         A28006           1         35mm Seed Dropper Hose / Meter         A254-01         62         1         M0 Nyloc Nut         A2800           2         M8 Haif Nut         9103         63         4         Seed Tray Clip         A280-07         813           3         Brifer Pad         A2375         64         8         6mm S/S Fender Washer         A304-07         8142           3         Brifer Pad         D1513         65         4         M6 Si Nut         9123           1         Decal "SEEDMATIC"         D1513         65         4         M6 Si Sut         9123           1         Decal "SEEDMATIC"         D1513         65         4         M6 Si Sut         9123           1         Decal "SEEDMATIC"         D1513         65         4         M6 Si Sut         91215           12         Iom Fat Washer         D4003         63         4         M6 Si Sut         9205           12         Iom Fat Washer         D041         1         1         24 Run Jumbo Rear No Si Si Sci         23040 <td>2</td> <td>-</td> <td>4000 Series Rodent Stop Link Arm</td> <td>A2540-06</td> <td>28</td> <td>1<sub>0</sub></td> <td>6mm Spring Washer</td> <td>9021</td>	2	-	4000 Series Rodent Stop Link Arm	A2540-06	28	1 <sub>0</sub>	6mm Spring Washer	9021
5       M6 Nyloc Nut       9109       60       1       Agitator Am Link       A28008         1       1       4000 Series Rodent Stop Lever Wire       A2540-07       61       2       Agitator Link Bolt       A2618-04         1       1       4000 Series Rodent Stop Lever Wire       A2340-07       61       2       Agitator Link Bolt       A2618-04         1       1       4000 Series Rodent Stop Lever Wire       A2340-07       65       4       B 6m Sty Series Rodent Stop Lever Wire       9123         2       M Fallowan       A2375       64       8       66       4       M6 Cross Knob       9121S         1       D Ecal "SEEDANTIC"       D 16513       65       4       M6 X: S0 Stot       9121S       9121S         1       D Ecal "4024"       D 1661       A2555       68       4       M6 X: S0 Stot       8205       9121S         1       D Ecal "4024"       D 4003       67       4       M6 X: S0 Stot       8205       8205         1       10       10       10       A388-01       9121S       9121S         1       10       10m Spring Washer       9041       71       1       24Run Jumbo Rear Non D-S Inspection Panel       A2660-01	<i>с</i>	16	M6x20 Bolt	8205H	59	19	M6 Nut	9121
1       4000 Series Rodent Stop Lever Wire       A2540-07       61       2       Agitator Link Bolt       A2618-04         1       35mn Seed Dropper Hose / Meter       9142       9142       9142         2       N8 Hail Nut       9103       63       4       86 end Tray Link       9030-07         3       Buffer Pad       2375       64       8       6m Si S Nut       9122         1       Decal "SEEDMATIC"       D1510       65       4       M6 cross Knob       9122         1       Decal "SEEDMATIC"       D1510       66       4       M6 s/S Nut       9121         1       Decal "SEEDMATIC"       D1510       66       4       M6 s/S S Bolt       9122         12       I Decal "SEEDMATIC"       D4003       67       4       M6 s/S S Bolt       9121         12       10 mr Flat Washer       0943       71       1       1       2041       72       1       248 numbro Rear Non D-S Inspection Panel       82060-01         12       10 mm Spring Washer       0943       73       1       1       248 nu Jumbro Rear Non D-S Inspection Panel       A2660-01         10       10m Spring Washer       0943       73       1       24R nu Jumbro Rear Non D-S	4	ഹ	M6 Nyloc Nut	9109	09	-	Agitator Arm Link	A28008
1       35mm Seed Dropper Hose / Meter       2384-01       62       1       M10 Nyloc Nut       9142         2       3 M Fall Nut       2384-01       63       4       68       4       3040-07         3       1       Decal       23 Siter Pade       23 Siter Pade       9123       9123         1       Decal "SEEDMATIC"       D1510       66       4       M6 Cross Knob       9123         1       Decal "SEEDMATIC"       D1510       66       4       M6 S/S Nut       9123         1       Decal "SEEDMATIC"       D1510       66       4       M6 S/S Site       9123         1       Decal "SEEDMATIC"       D14003       65       4       M6 S/S Nut       9123         1       Decal "SEEDMATIC"       D14003       66       4       M6 S/S Nut       9123         2       M10 x GS Bolt       A815H       23 GS Sine       82660       82065         12       10 mm Flat Washer       9042       70       4       M6 x 25 Bolt       213H         10       10 mm Spring Washer       73       1       1       24Run Junbo Rear Non D-S Inspection Panel       22660-01         10       10 mm Spring Washer       1       1	ы	-	4000 Series Rodent Stop Lever Wire	A2540-07	6	ы	Agitator Link Bolt	A2618-04
2       MB Haif Nut       9103       63       4       Seed Tray Clip       A3040-07         3       Buffer Pad       0.2375       64       8       6mm S/S Fender Washer       90228         1       Decal "SEEDMATIC"       D1510       66       4       M6 S/S Nut       9122         1       Decal "SEEDMATIC"       D1510       66       4       M6 S/S Nut       91218         1       Decal "SEEDMATIC"       D16100       66       4       M6 S/S Nut       9122         2       M10 x 65 Bolt       206M Flanged Bush       A2355       68       4       M6 s/S S Bolt       82065         12       10 mm Flat Washer       9042       7       7       4       87 Nut       8213H         10       10 mm Spring Washer       9042       7       7       4       M6 x 25 Bolt       820601         10       10 mm Spring Washer       9041       7       1       1       2260-01         10       10 mm Spring Washer       9042       7       1       24 Ru Junb Rear D-S Inspection Panel       2260-01         10       10 mm Spring Washer       9042       7       1       1       12 Aru Junb Rear D-S Inspection Panel       2260-01	۵	-	35mm Seed Dropper Hose / Meter	A2384-01	62	-	M10 Nyloc Nut	9142
3       Buffer Pad       42375       64       8       6mm S/S Fender Washer       90225         2       3M Yellow Panel Decal       D1513       65       4       M6 S/S Nut       9122         1       Decal "SEEDMATIC"       D1510       65       4       M6 S/S Nut       9123         1       Decal "SEEDMATIC"       D1510       66       4       M6 S/S Nut       9125         1       Decal "SEEDMATIC"       D4003       67       4       M6 S/S Nut       9125         2       M10 x 65 But       23555       68       4       M6 x 20 S/S But       8216       2305         2       M10 x 65 But       042       70       4       M6 x 25 But       2305       2314         10       10 mm Spring Washer       9041       71       1       24Run Jumbo Rear Non D-S Inspection Panel       2060-01         9       M10 x 25 But       70       4       M6 x 25 But       24Run Jumbo Rear Non D-S Inspection Panel       2060-02         10       10mm Spring Washer       9041       72       1       24Run Jumbo Rear D-S Inspection Panel       2060-02         10       10m x 25 But       70       4       M6 x 25 ED       70       4784 N Jumbo Rear D-S Inspection Pa	2	2	M8 Half Nut	9103	63	4	Seed Tray Clip	A3040-07
2       3M Yellow Panel Decal       D1513       65       4       M6 Cross Knob       9122         1       Decal "SEEDMATIC"       D1510       66       4       M6 S/S Nut       9121         1       Decal "SEEDMATIC"       D1510       66       4       M6 S/S Nut       9121         2       No ecal "SEEDMATIC"       D4003       67       4       M6 S/S Nut       9121         2       N 2066 Planged Bush       A3355       68       4       M6 S/S Nut       82055         2       N 2066 Planged Bush       A3356       68       4       M6 S/S Nut       82165         12       10 mm Flat Washer       9042       70       4       M6 x 25 Bolt       A4619         10       10 m Spring Washer       9041       71       1       24Run Jumbo Rear No D-S Inspection Panel       A2660-01         9       M10 x 25 Bolt       70       4       M6 x 25 Bolt       A2660-07       A2660-07         9       M10 x 25 Bolt       70       1       24Run Jumbo Rear D-S Inspection Panel       A2660-02         10       10mm Spring Washer       9041       72       1       24Run Jumbo Rear D-S Inspection Panel       A2660-02         10       10m x 25 Bolt	8	ო	Buffer Pad	A2375	64	œ	6mm S/S Fender Washer	9022S
1       Decal "SEEDMATIC"       D1510       66       4       M6 S/S Nut       9121S         1       Decal "4024J"       D4003       67       4       M6 S/S Nut       8205S         4       S 206M Flanged Bush       A2355       68       4       M6 x 20 S/S Bolt       8205S         2       M10 x 65 Bolt       8417H       69       4       Agrispred Spinner Disc Spring       8213H         12       10 mm Flat Washer       9042       71       1       12       24 m6 x 25 Bolt       8213H         10       10m Spring Washer       9041       71       1       1       24R un Jumbo Rear Non D-S Inspection Panel       82660-01         9       M10 x 25 Bolt       70       4       M6 x 25 Bolt       A2660-02         10       10m Spring Washer       9041       72       1       24R un Jumbo Rear D-S Inspection Panel       A2660-02         10       10mm Spring Washer       72       1       24R un Jumbo Rear D-S Inspection Panel       A2660-02         11       10 mm Spring Washer       72       1       24R un Jumbo Rear D-S Inspection Panel       A2660-02         11       10 mm Spring Washer       72       1       24R un Jumbo Rear D-S Inspection Panel       A2660-02	ი	2	3M Yellow Panel Decal	D1513	65	4	M6 Cross Knob	9122
1         Decal "4024J"         B4 003         67         4         M6 x 20 S/S Bolt         2005           4         S 206M Flanged Bush         A2355         68         4         M6 x 50 SS Bolt         8216S           2         M10 x 65 Bolt         8417H         69         4         Agrispred Spinner Disc Spring         8213H           12         10 mm Flat Washer         9042         71         1         1         24Run Jumbo Rear Non D-S Inspection Panel         82660-01           9         M10 x 25 Bolt         71         1         1         24Run Jumbo Rear Non D-S Inspection Panel         A2660-02	0	-	Decal "SEEDMATIC"	D1510	99	4	M6 S/S Nut	9121S
4         S 206M Flanged Bush         A2355         68         4         M6 x 50 SS Bolt         8210S           2         M10 x 65 Bolt         8417H         69         4         Agrispred Spinner Disc Spring         A4619           12         10 mm Flat Washer         9042         71         1         2         After Disc Spring         8213H           10         10m Spring Washer         9041         71         1         2         After Jumbo Rear Non D-S Inspection Panel         A2660-01           9         M10 x 25 Bolt         72         1         2         24Run Jumbo Rear Non D-S Inspection Panel         A2660-02	1	٦	Decal "4024J"	D4003	67	4	M6 x 20 S/S Bolt	8205S
2         M10 × 65 Bolt         B417H         69         4         Agrispred Spinner Disc Spring         A4619           12         10 mm Flat Washer         9042         70         4         M6 × 25 Bolt         8213H           10         10mm Spring Washer         9041         71         1         24Run Jumbo Rear Non D-S Inspection Panel         A2660-01           9         M10 × 25 Bolt         72         1         24Run Jumbo Rear D-S Inspection Panel         A2660-02           10         10mm Spring Washer         8418H         72         1         24Run Jumbo Rear D-S Inspection Panel         A2660-02           11         10mu Spring Washer         8418H         72         1         24Run Jumbo Rear D-S Inspection Panel         A2660-02           11         10mu Spring Washer         72         1         24Run Jumbo Rear D-S Inspection Panel         A2660-02           11         10mu Spring Washer         72         1         24Run Jumbo Rear D-S Inspection Panel         A2660-02	2	4	S 206M Flanged Bush	A2355	89	4	M6 x 50 SS Bolt	8210S
12       10 mm Flat Washer       9042       70       4       M6 x 25 Bolt       8213H         10       10mm Spring Washer       9041       71       1       24Run Jumbo Rear Non D-S Inspection Panel       A2660-01         9       M10 x 25 Bolt       72       1       24Run Jumbo Rear D-S Inspection Panel       A2660-02         10       10mm Spring Washer       8418H       72       1       24Run Jumbo Rear D-S Inspection Panel       A2660-02         10       10m Spring Washer       8418H       72       1       24Run Jumbo Rear D-S Inspection Panel       A2660-02         10       10m Spring Washer       8418H       72       1       24Run Jumbo Rear D-S Inspection Panel       A2660-02         11       10m Spring Washer       8410       72       1       24Run Jumbo Rear D-S Inspection Panel       A2660-02         11       10m Spring Washer       810       72       1       24Run Jumbo Rear D-S Inspection Panel       A2660-02         11       10m Spring Washer       1       24Run Jumbo Rear D-S Inspection Panel       A2660-02       A17CHISON INDUSTRIES       A17CHISON INDUSTRIES         11       1       24Run Britten       1       24Run Jumbo Rear D-S Inspection Panel       A17CHISON INDUSTRIES       A17CHISON INDUSTRIES       A1	<i>с</i>	2	M10 × 65 Bolt	8417H	69	4	Agrispred Spinner Disc Spring	A4619
10         10mm Spring Washer         9041         71         1         24Run Jumbo Rear Non D-S Inspection Panel         A2660-01           9         M10 x 25 Bolt         8418H         72         1         24Run Jumbo Rear D-S Inspection Panel         A2660-02           1         AIO x 25 Bolt         72         1         24Run Jumbo Rear D-S Inspection Panel         A2660-02           2         AIO x 25 Bolt         72         1         24Run Jumbo Rear D-S Inspection Panel         A2660-02           2         AIO x 25 Bolt         72         1         24Run Jumbo Rear D-S Inspection Panel         A2660-02           2         AIO x 25 Bolt         72         1         24Run Jumbo Rear D-S Inspection Panel         A2660-02           2         AIO x 25 Bolt         2 <td>4</td> <td>12</td> <td>10 mm Flat Washer</td> <td>9042</td> <td>2</td> <td>4</td> <td>M6 x 25 Bolt</td> <td>8213H</td>	4	12	10 mm Flat Washer	9042	2	4	M6 x 25 Bolt	8213H
9         M10 x 25 Bolt         8418H         72         1         24Run Jumbo Rear D-S Inspection Panel         A2660-02           AITCHISON INDUSTRIES         AITCHISON INDUSTRIES         AITCHISON INDUSTRIES         AITCHISON INDUSTRIES         AITCHISON INDUSTRIES           AITCHISON INDUSTRIES         AITCHISON INDUSTRIES         AITCHISON INDUSTRIES         AITCHISON INDUSTRIES         AITCHISON INDUSTRIES           AITCHISON INDUSTRIES         AITCHISON INDUSTRIES         AITCHISON INDUSTRIES         AITCHISON INDUSTRIES         AITCHISON INDUSTRIES           AITCHISON INDUSTRIES         AITCHISON INDUSTRIES         AITCHISON INDUSTRIES         AITCHISON INDUSTRIES         AITCHISON INDUSTRIES           AITCHISON INDUSTRIES         AITCHISON INDUSTRIES         AITCHISON INDUSTRIES         AITCHISON INDUSTRIES         AITCHISON INDUSTRIES	ß	10	10mm Spring Washer	9041	71	-	24Run Jumbo Rear Non D-S Inspection Panel	A2660-01
AITCHISON INDUSTRIES EXPLODED VIEW DRAWING PRODUCT: 4000 24Run Jumbo Box Part Numbers DRAWN BY: Phil.W 2060-ASSY	9	6	M10 × 25 Bolt	8418H	22	-	24Run Jumbo Rear D-S Inspection Panel	A2660-02
EXPLODED VIEW DRAWING PRODUCT: 4000 24Run Jumbo Box Part Numbers DRAWN BY: Phil.W A260-ASSY			Ļ	Ń			<b>AITCHISON INDUSTRIES</b>	
PRODUCT: 4000 24Run Jumbo Box Part Numbers DRAWN BY: Phil.W DRAWN BY: ADDAGE ASSY							EXPLODED VIEW DRAWIN	ს
Phil.W A2660-ASSY							PRODUCT: 4000 24Run Jumbo L	3ox Part Numbers
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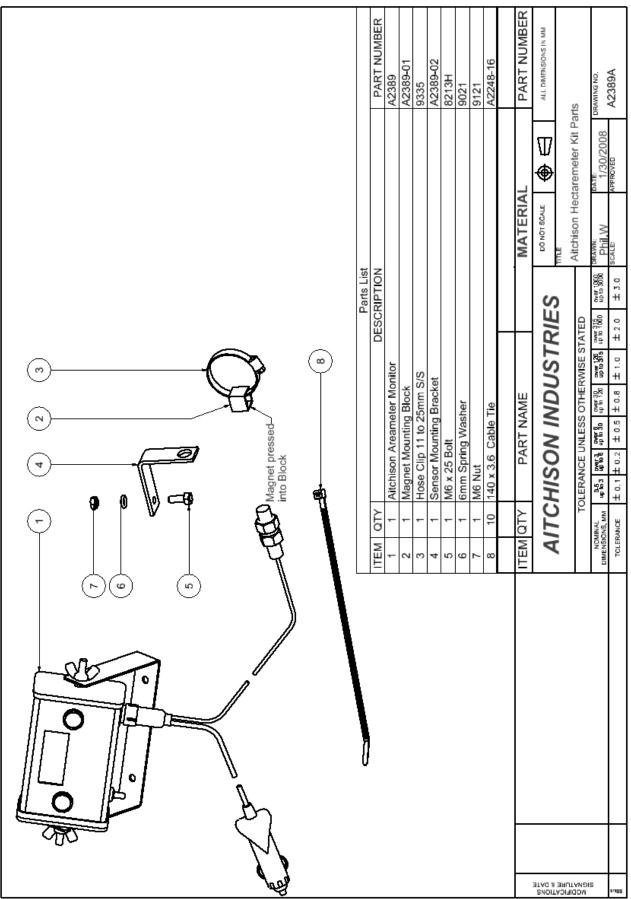
		Parts List				Parts List	
ITEM	QTΥ	Y DESCRIPTION	PART NUMBER	ITEM	<b>α</b> τγ	DESCRIPTION	PART NUMBER
-	-	Rear Axle Pivot Mount RH Assembly	A2521RH	19	7	M10 Nyloc Nut	9142
ы	-	Rear Axle Pivot Mount LH Assembly	A2521LH	20	0	20mm Spring Washer	9076
ю	-	Rear Transport Axle Assembly	A2523	21	2	M20 x 60 Bolt	8712H
4	2		A2520-03	22	80	M16 Nut	9161
ъ	2		A2524	23	8	16mm Spring Washer	9061
9	4		A2525	24	∞	M16 x 55 Bolt	8603H
7	-	Rear Axle Lock Assembly	A2526	25	4	M10 x 30 Bolt	8415H
ø	2	Trojan 5 Stud Hub	TR 082030	26	2	235 -70/R15 Wheel Assembly	A3127-01
6	-	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
11	2		9288	29	-	M20 x 150 Bolt	8702
12	4		A3710-53	30	0	Top Link Pin B76	A23189-02
13	-	Rear Axle Lock Lever	A2520-01	31	-	Hidrolic Hose Pig Tail Pole	A23188-14
14	m	10 mm Flat Washer	9042	32	1	M6 x 45 Bolt	8203H
15	თ	M6 Grease Nipple Straight	9323	33	-	M6 Nyloc Nut	9109
16	2	M20 × 100 Bolt	8709H	34	7	M10 x 35 Bolt	8402H
17	പ	i M20 Nyloc Nut	9122	35	۰	4000 Drawbar Assembly	A2528
48	-	M10 x 55 Bolt	8427H	37	-	Trailing Hydraulic Hose Kit	A3127-02
				e		AITCHISON INDUSTRIES EXPLODED VIEW DRAWING PRODUCT: 4000 Series Trailing Kit (Part Numbers)	Part Numbers
		A					,
		•				DATE: 24/04/2013 A2520-ASSY	SY 2/2
I							







Parts List	ITEM QTY DESCRIPTION PART NUMBER	1 1 4000 Series LH Light Mount A2591LH	Assembly	2 1 4000 Series RH Light Mount A2591RH Assembly	7	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	<b>AITCHISON INDUSTRIES</b>	EXPLODED VIEW DRAWING	PRODUCT: 4000 Series Light Kit (Seed & Fert Models)	DRAWN BY: Phil.W A2590-ASSY DATE: 9/08/2013
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