

AITCHISON®

Operators Manual



4024 & 4124 Series Drills



Aitchison is
a Brand of



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Feilding, New Zealand



KINGHITTER



AITCHISON



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,

From the Team of Directors
Nathan Barnes, Nick Barnes, Grant Barnes
Farmgear Ltd

Register your 24-Month Factory Warranty

*Mandatory for every Aitchison Seed Drill Sold
*No 24-month Factory warranty unless this is filled out.



Form Link: <https://form.jotform.com/242126352403849>

WARNING

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

COMPLETE AND RETURN WARRANTY REGISTRATION TO ENSURE VALIDATION.
RETURN TO: FARMGEAR LTD, PO BOX 4114, PALMERSTON NORTH,
NEW ZEALAND

WARRANTY

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

AITCHISON 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, AITCHISON warrants with respect to each new AITCHISON Machine sold by its accredited agents, that for a period of twenty four months from the dates of original retail sale, AITCHISON 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. AITCHISON 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) Non-compliance to AITCHISON's operating and maintenance instruction,
- (f) Unauthorized repairs or alterations,
- (g) Consequential damage resulting from misuse or initial faults,
- (h) Parts subjected to wear 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.

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TO THE OWNER AND OPERATOR

Your Aitchison Drill has been 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: _____

Date of Purchase: _____

Model: _____

Serial Number: _____

The warranty registration sticker for this Seedmatic Drill is on your machine and is shown on Page 1 of this operator's manual.

The owner must ensure the dealer, upon delivery of the machine, has completed the **WARRANTY REGISTRATION FORM**. 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
Transport Width	3.425m 11.23ft	3.425m 11.23ft	3.425m 11.23ft	3.425m 11.23ft
Sowing Width	3.000m 9.8ft	3.000m 9.8ft	3.000m 9.8ft	3.000m 9.8ft
Height	1.750m 5.7ft	1.750m 5.7ft	1.750m 5.7ft	1.750m 5.7ft
Weight Empty	1420kg 3130lb	1785kg 3935lb	1550kg 3417lb	1915kg 4221lb
Length	2.080m 6.8ft	4.375m 14.3ft	2.270m 7.4ft	4.375m 14.3ft
Seed Capacity	850lt 24.1bu	850lt 24.1bu	570lt 16.1bu	570lt 16.1bu
Fertiliser Capacity	N/A	N/A	590lt 16.7bu	590lt 16.7bu
Number of Coulters & row spacings	24 Rows @ 125mm / 5"	24 Rows @ 125mm / 5"	24 Rows @ 125mm / 5"	24 Rows @ 125mm / 5"

Optional Accessories:

Bin level indicator; A3083

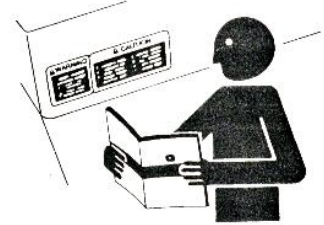
Hydraulic kit for Drawbar; A3129

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

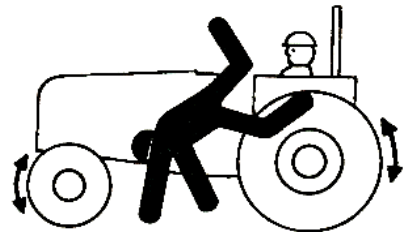
Be careful when operating machine to avoid injury.

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.

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

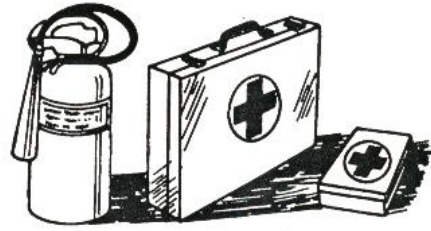


Operating equipment safely requires the full attention of the operator. Do not wear radio headphones while operating machine.

BE SAFE WITH CHEMICALS

Direct exposure to agricultural and hazardous chemicals can cause serious injury. Potentially hazardous chemicals used with Aitchison equipment includes 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.

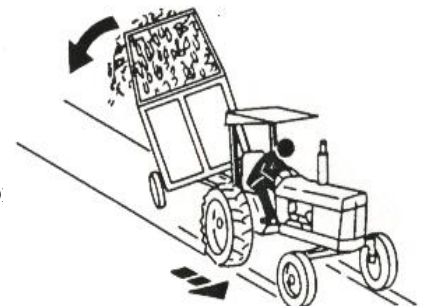
Reduce speed over rough ground.

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, 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 manufacturer's 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

		TEMPERATE PASTURELAND		TROPICAL PASTURELAND	ARID PASTURELAND
		REJUVENATION	RENEWAL		
TIME 	1.	Autumn or spring	Autumn	Spring	Before or after monsoonal rain
	2.	 Graze heavily	 Graze heavily	 * Mow with flail type mower	
	3.		 Allow 1 week to recover	 Allow 3 days to recover	
	4.	 Seed with Seedmatic	 Spray with total spectrum herbicide. Include insecticide	 Spray for insects. Can use light herbicide rate to control competition	
	5.	 Graze lightly	 Graze lightly	 Spray for insects and watch for withholding period requirements	 Seed with Seedmatic
		 Graze lightly	 Seed with Seedmatic	 Seed with Seedmatic	 Seed with Seedmatic
		 Graze lightly	 Graze lightly	 Graze lightly	 Graze lightly

* An application of a total spectrum herbicide may replace mowing if the ground cover is short. Sowing must be done within 10 days.

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.

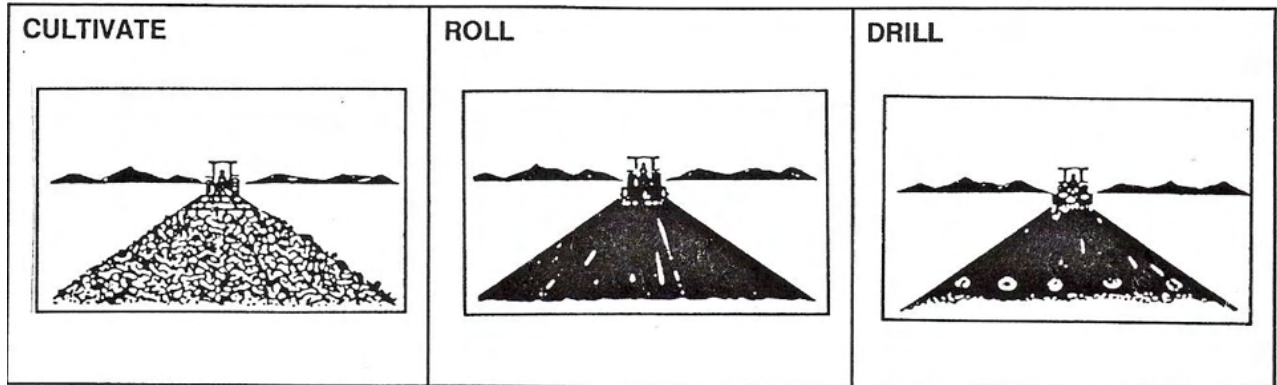
Wheat and Barley – Direct seeding in early spring or autumn depending on variety. Always spray out pasture with approved herbicide (may not be necessary after brassica). Always sow with fertiliser.

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 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 coulters will pass through leaving the seed behind the soil tith. 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.

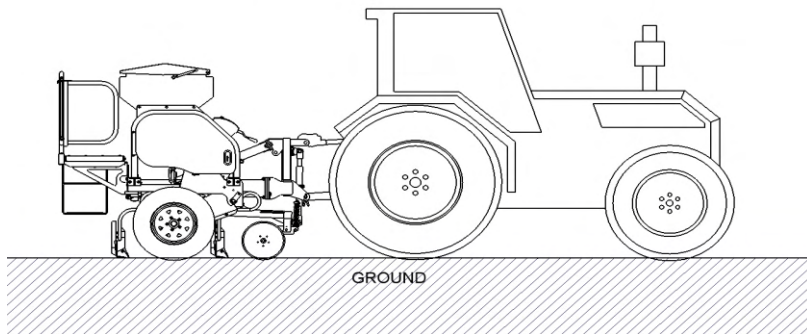
Connect the Seedmatic drill to the rear 3-point linkage of your tractor. Adjust the tractors top link arm so the drill frame is sitting parallel with the ground.

Adjust the tractors sway chains to give 75-100mm lateral movement.

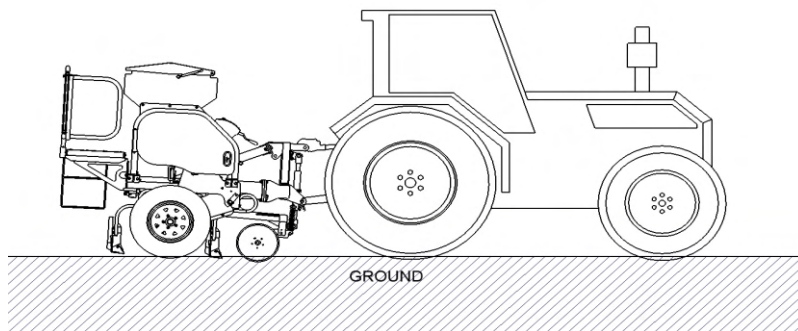
The tractors hydraulics should be set to allow the drill to float over the terrain unimpeded by the movement of the tractor.



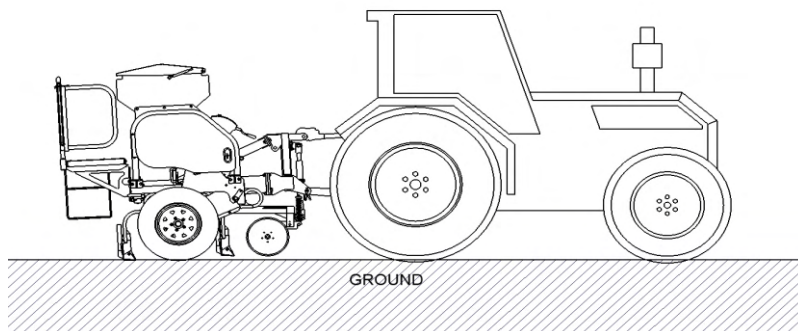
**Correct
Seedmatic
sitting level**



**Seedmatic
leaning to
far forward**



**Seedmatic
leaning to
far back**



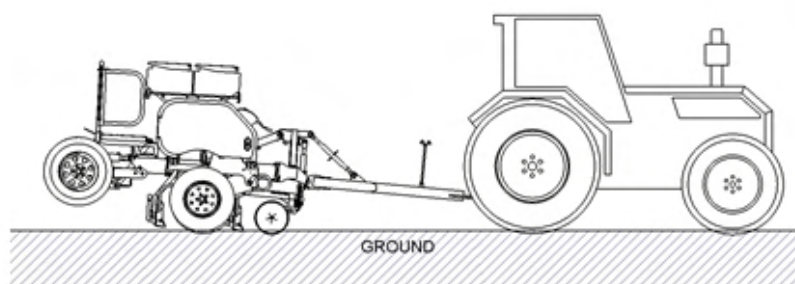
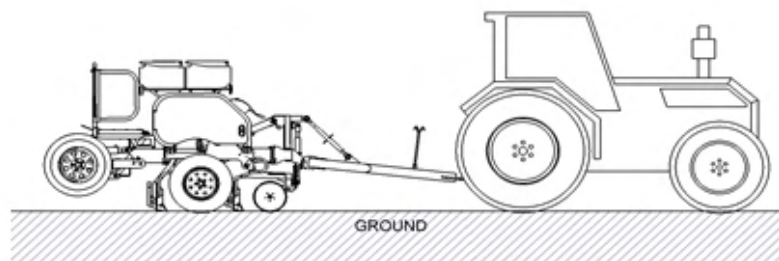
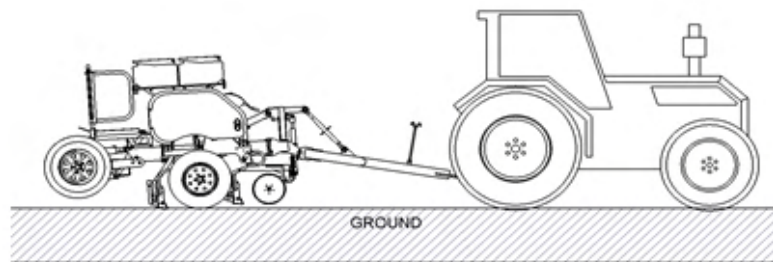
Connecting drill to tractor; Trailed Models.

Connect the Seedmatic Drawbar to the tractors Towbar. Make sure you use 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 tractor's hydraulic banks. This hydraulic system is used to raise and lower the rear transport wheels on the Seedmatic. When seeding the rear transport wheels can be fully raised clear of the ground.

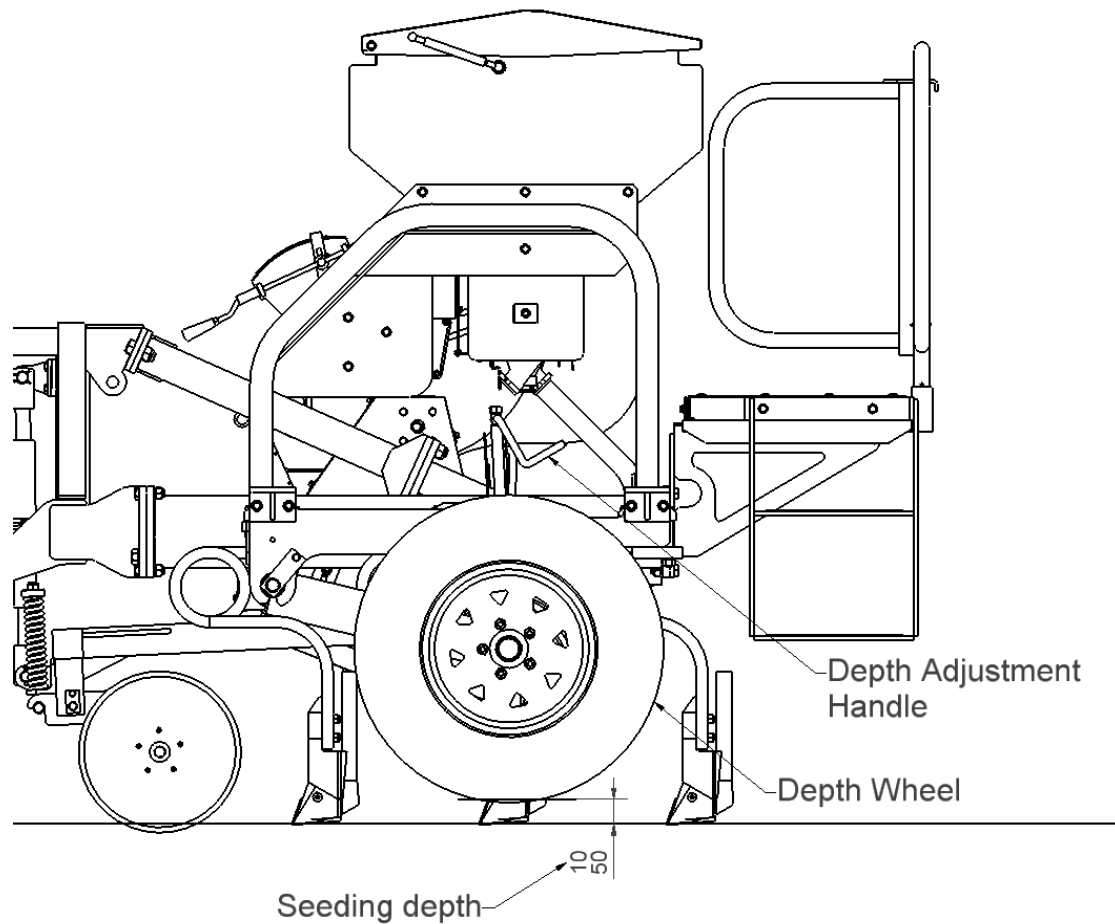
Adjust the Drawbar top link to ensure that the Seedmatic drill frame is sitting parallel with the ground.



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

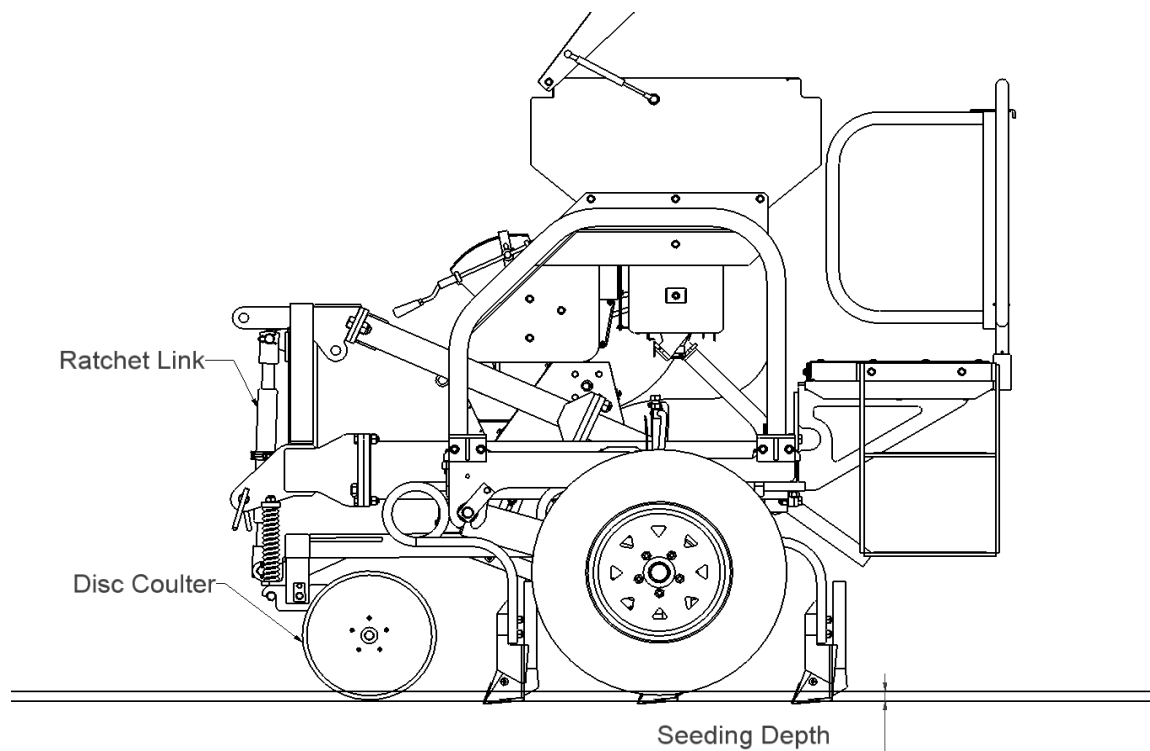
The Disc Coulters are designed to help cut trash/residue or stubble that may be present in the field. This trash/residue or stubble is cut into short lengths by the Disc Coulters, allowing the trash/residue or stubble to flow more efficiently past the Seed Openers with fewer blockages. The Disc Coulters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

Setting up the Disc Coulters Kit

If your Seedmatic drill has a Disc Coulters 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 coulters 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.

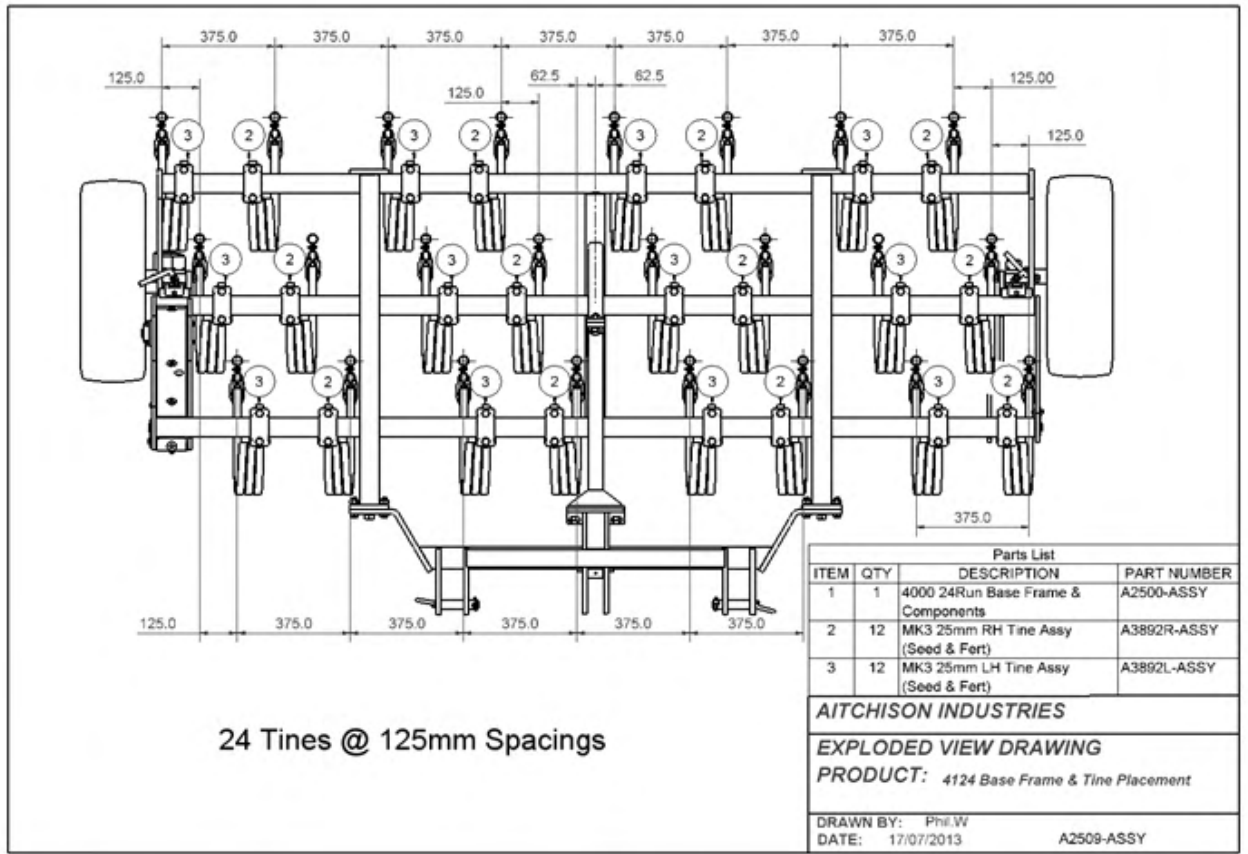
In very soft/damp ground the Disc Coulters may roll up a strip of turf, if this occurs reduce the depth of the Disc Coulters.



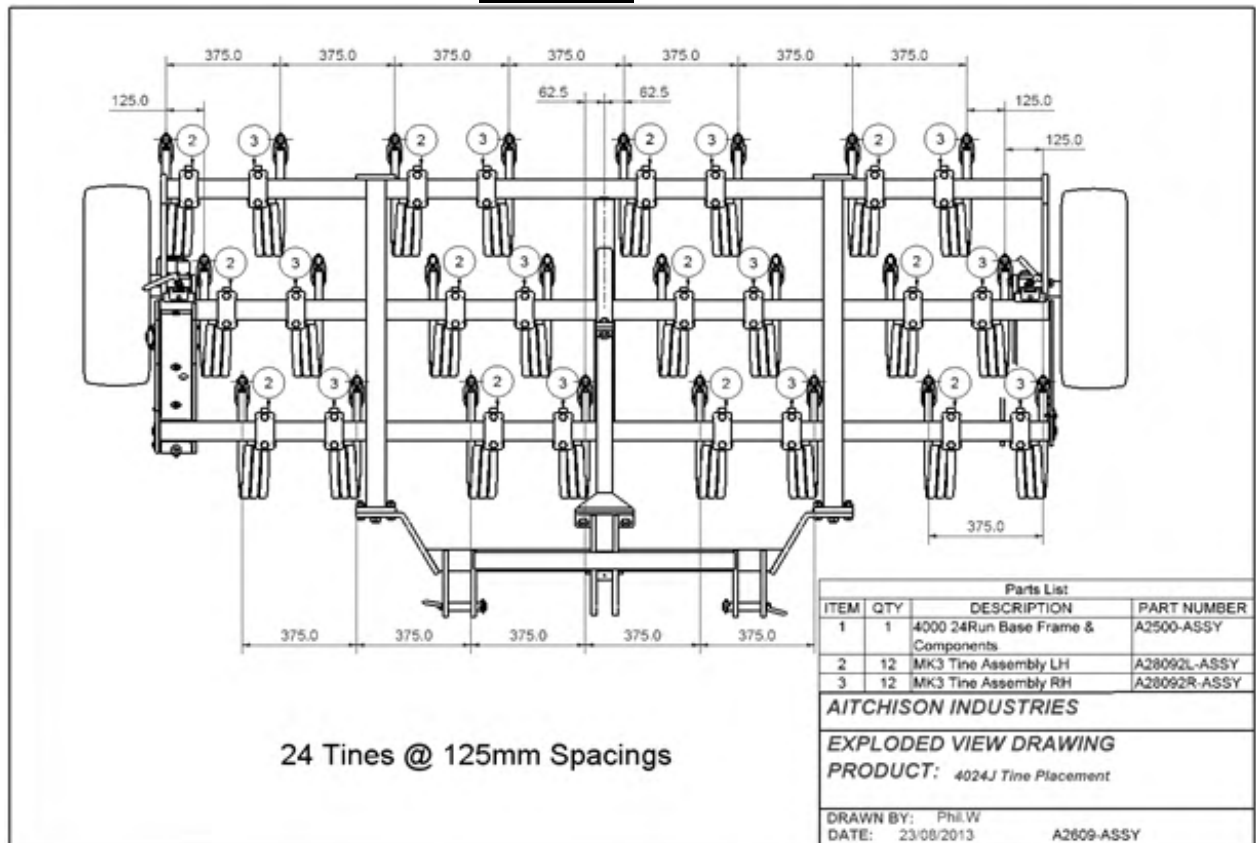
Tine Alignment

To get the best from your Disc Coulters 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



JUMBO

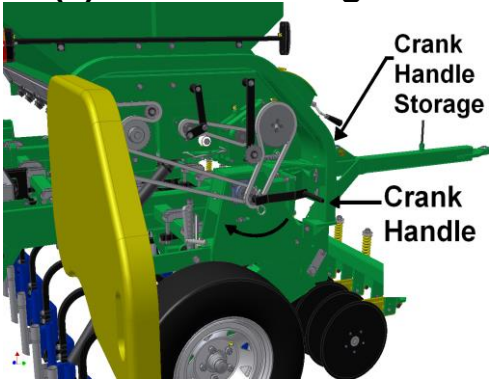
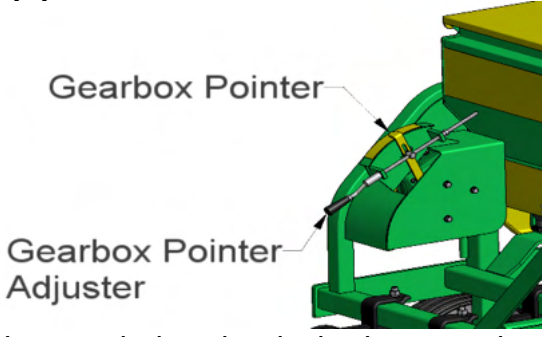


CALIBRATING THE DRILL TO CHECK THE SOWING RATE

NOTE: When new, the Seed Pads may have a white powder (chalk dust) on them. This is to prevent them from 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.

<p>(1) Prime:</p> <p>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.</p> <p>Set the Gearbox pointer in the appropriate position for you desired seed sowing rate. (See Seed Chart under hopper lid.)</p>	<p>(2) Seed Catchment:</p> <p>Place the Calibration Tray under the 5 appropriate Seed metering Units to catch the metered seed.</p> <p>Another method is to pull the black seed dropper hose off the 5 appropriate Coulter Tubes and place them in a bag or container.</p>
<p>(3) Seed Metering:</p>  <p>Rotate Crank Handle Clockwise 29 times.</p>	<p>(4) Weigh Seed:</p> <p>Catch and weigh the total amount metered through the 5 metering units. (in grams).</p> <p>NOTE: Remember "TARE" scales before weighing; for the weight of the bag or container.</p>
<p>(5) Conversion:</p> <p>Divide the weight measured by 3 to establish kilograms per hectare.</p> <p>i.e.: 45 grams / 3 = 15kg/ha</p>	<p>(6) Check:</p>  <p>If above or below the desired rate, make the necessary adjustment via the Gearbox Pointer Adjuster. RECALIBRATE</p>

Follow the above steps to calibrate the Fertiliser Hopper.

Introduction

This is a control unit designed by The Reese Group for Aitchison Seedmatic Drills, and can also be used for general use in agriculture.

The rotational speed of the ground wheel is counted by a magnetic reed sensor. This sensor is in line with a magnet fixed to the rotating mechanism. The magnet indicates to the sensor when the wheel has rotated once.

There is a second magnetic sensor or switch input which can be used to disable the area counts at headlands etc. This can be paralleled up to a pause switch if required.

When the control unit is powered down all relevant information is stored and retained.

The functions on the large display can be adjusted by using the two panel buttons.

Technical

Power supply

-DC 10 to 30 Volts low current.

-not applicable

Fused

-150mm x 100mm x 63mm

Dimensions

-4 character, some alphanumeric

Display

-Optional backlight.

-M12 nylon, 40mm length, 2 mounting nuts.

-Protection fitted to the wheel sensor.

-Working distance 10 to 25mm from magnet

-Standard Monitor unit ST6265 Processor 8MHz

Memory retention of Count and options

Circuit board

Installation

Mount the control box within the cab so that the display can be easily seen. Position using a suitable bracket and the side mount M6 bolt fixings.

With the control switched off run the power cable to a suitable 12 volt dc power source. This power source must have permanent power and not be switched through the ignition otherwise data may be lost when switched off. Brown or red core for positive and blue or black for negative. The control is reverse polarity protected.

Run the wheel sensor cable, identified with the protection sleeve, down



Aitchison "Seedmatic" Areameter Instruction Manual

Basic Functions of:

- Area displayed in Acres or Hectares.
- Speed displayed in kph or mph
- Distance Displayed in Kilometers or Meters

Optional Functions of:

- Working Time
- 4 section width switch inputs for spray area
- Low / High Speed Alarm

Two Speed Displays

Press Display again to change to the speed display. This displays an accurate running ground speed.

Initially displays SP:EU for European measurements and displays Ground speed in Km's per hour



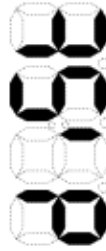
Press display once to convert to show in miles/hour. Initial shown by SP:GB



Speed Display is updated every 2 seconds. If there are no pulses for 10 seconds then the display will clear.

Display Distance in Kilometers and Meters

Press Display again to change to show Distance. This displays an accurate running Distance covered. The smallest denomination displayed is 0.001 km's or 1 m.



Press and hold change to clear the Distance store.

Press Display again to revert to running area.

through the cab to a suitable position on the axle of the wheel. Fashion a bracket to mount the wheel sensor with 1/2 inch hole or cable tie the sensor in a suitable position. Mount the powerful linear magnet onto the wheel hub with a suitable epoxy glue. Check that the magnet will not catch the sensor and will pass within 25mm of the sensor.

Run the machine cut off sensor cable, identified as the sensor without the protection sleeve, down to a position where the machine will move at headlands. When the magnet is close to this sensor the area counters are disabled, but the speed displays are still enabled. There are many possibilities for positioning this sensor:

- Lever movements within the cab,
- Three point linkage movements at the headlands,
- Arm movements on the machine.
- Cut the sensor off and fit to spare terminals on a spray cut-off switch

- Short circuit to disable the area count.

Check again that the sensor comes within 25mm of the magnet when the unit moves.

Circumference and Span measurements

During the start up procedure the controller allows for the input of the wheel circumference and the width of the machine.

Circumference:

The measurement required is actually the distance the machine moves between each pass of the sensor.

For the magnet fitted wheel.

1. Mark the ground and the wheel.
2. Drive in a straight line with a second person counting the number of wheel turns. Stop at ten turns precisely.
3. Measure the distance travelled and divide by ten.
4. Keep a record of this value for future reference.

Span

Span is the width of the machine. Note: the maximum width is 25.6m.

Start-Up

After power on the control displays Area for 2 seconds. During this time the control performs its own self tests. Also during this period it is also possible for the user to switch to Options mode.



Pressing Change and Display buttons at the same time, whilst the control is in the initial test mode enters the option change mode.



Initially Circ for Circumference is displayed for 2 seconds



Press change to increase the circumference to the value required. Note the maximum circumference is 5.12 meters, always displayed in meters i.e. 5m12cm. Holding the change button will increment the span automatically.



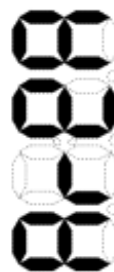
Press display once to store the new circumference and move on to input the span of the machine.



Press change to increase the machine span to the value required. Note the maximum machine width is 25.6 meters, always displayed in meters ie 25m60cm. Press and hold will increment automatically.



Press display once to store the new span value and. Move on to the operational mode.



Operational Mode

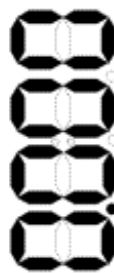
After the initial two second display of area, the control will always switch to display the identifier for the last Mode i.e. if switched off in distance mode when switched back it will remain in distance mode.


There are seven displayed modes of operation. These are swapped sequentially with each press of the display button. Holding the button displays a character sequence as an identifier. Press and hold the change button to reset the area and distance counts.

Running Hectare and Acre Display




Displays an accurate running Hectare Area covered. The smallest denomination displayed is 0.001 Hectares ie 10 m².

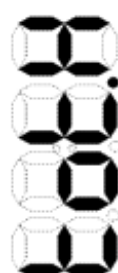


CHANGE  Press and hold change to clear the running Area store. Note this also clears the running Acre display




DISPLAY  Press display once to convert to show in Acres.

Total Hectare and Acre Display




Press Display again to change to the total or machine area displays. This displays an accurate running Hectare Area covered. The smallest denomination displayed is 0.001 Hectares ie 10 m².



CHANGE  Press and hold change to clear the running Area store. Note this also clears the running Acre display



DISPLAY  Press display once to convert to show in Acres.

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 its 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. ¼” 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 your 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 increase significantly.

WHEEL DIAMETER: On cultivated soil slippage will reduce sowing rate.

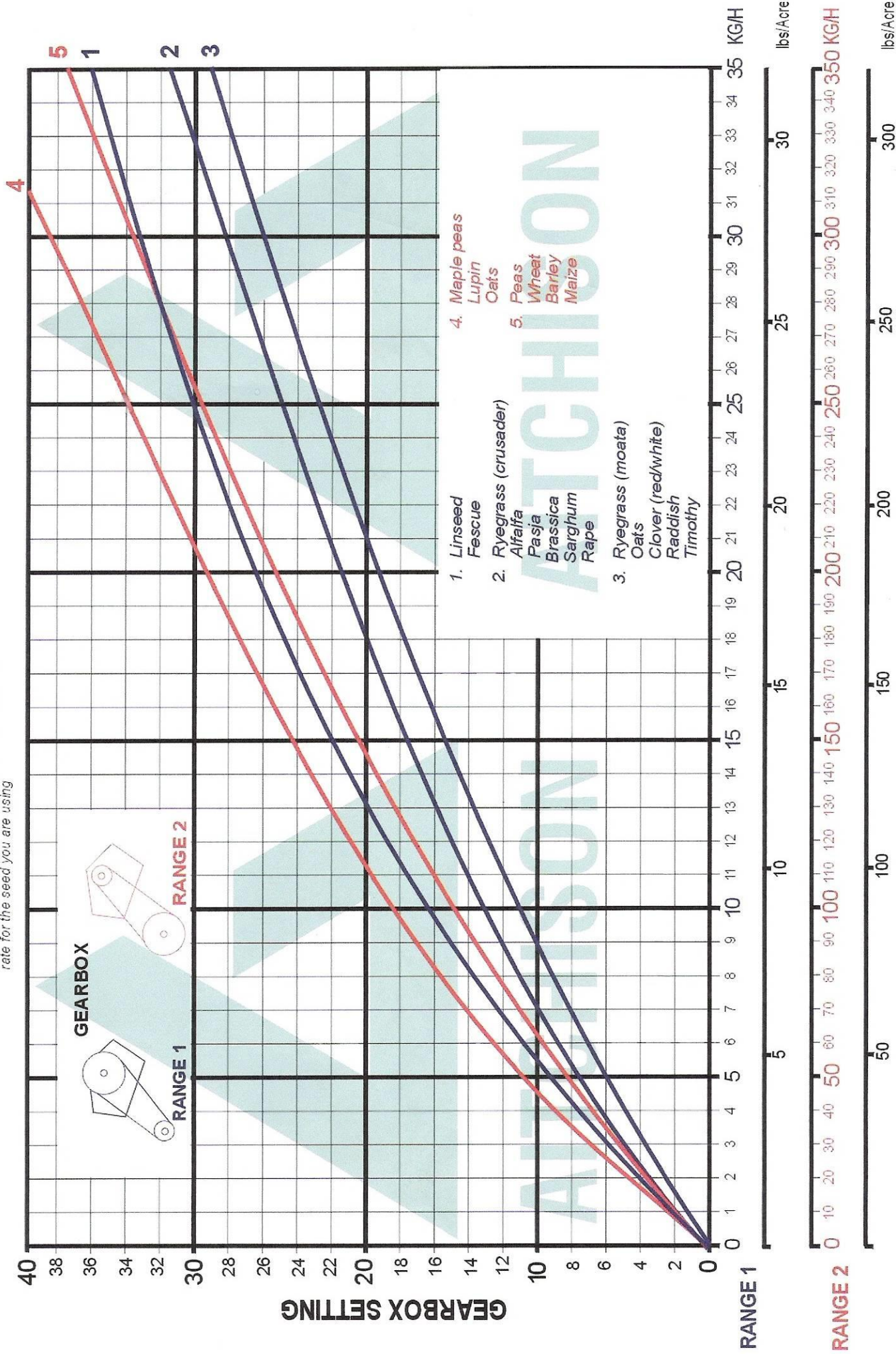
RECORD PREVIOUS RESULTS: Keep a notebook and record for future reference, mixtures, conditions, and settings chosen.

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!!!

TEMPERATE SEEDS

NOTE: This chart is a **GUIDE ONLY** and different seed lines within a species can have markedly different results. Therefore calibration is recommended as the only truly accurate way of obtaining the desired sowing rate for the seed you are using



SOWING RATE

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.

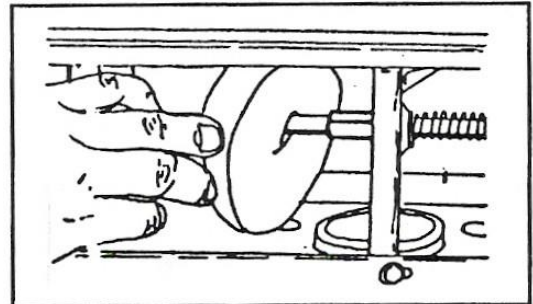
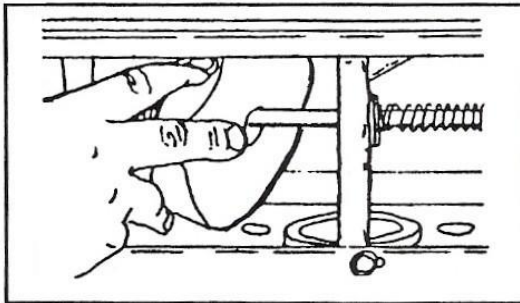
OAT WIPER AND BEAN SPACER

Bean Spacer (Optional)

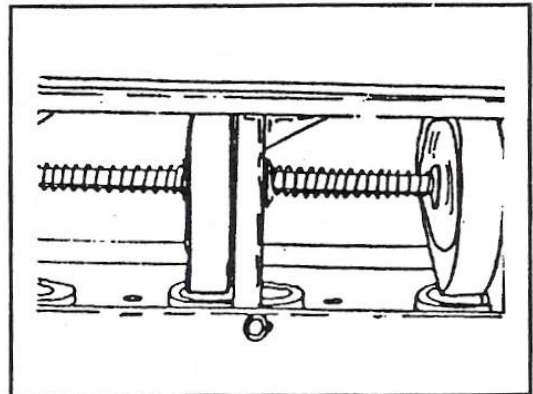
When sowing large smooth seeds such as beans markedly improved seeding performance is achieved by fitting spacers between the sponge and the seeder unit. This in effect moves the sponge away from the seeder casting and allows for better entry of the seeds into the sponge. A better 'pick up' is attained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

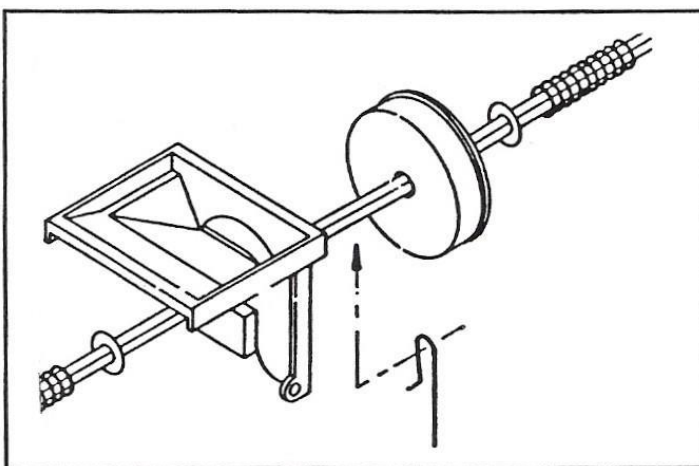
If small seeds need to be sown (i.e. grass seed, brassicas) or small grains (i.e. wheat) always remove the spacers and store in a safe place.

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

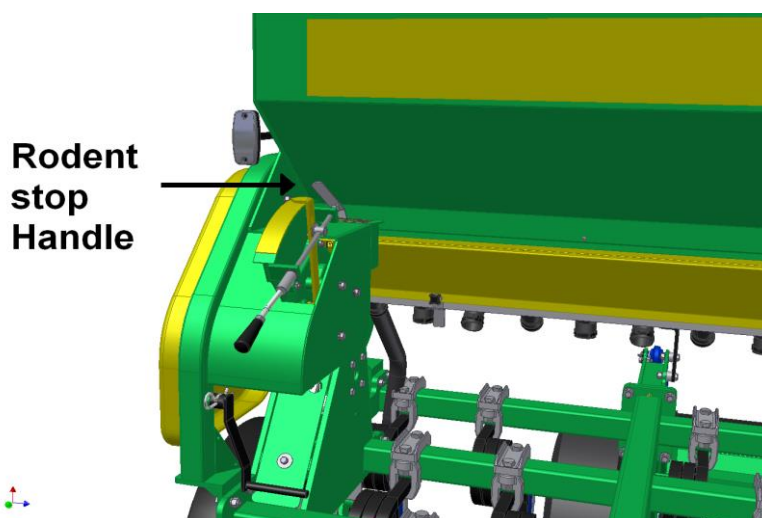
The sponge seed mechanism is unique – it has great capacity to sow seed consistently and accurately. However, if seeds are left in the hopper over the winter months rats and mice will find an entry point into the hopper by chewing through the sponge pad to reach the seeds. The simple solution therefore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

BLANKOFF TRAY (Rodent Stop)

Your SEEDMATIC drill is equipped with a “Rodent Stop/Blankoff Tray”. This blankoff tray is located under the seed hopper, between the seeder units and the seed dropper hose. The purpose of this tray is to **help** prevent rodent damage to the sponge pads. This blankoff tray is **not** fool proof. Mice and rats can and will damage your new machine if any food is left in or on the machine.

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.



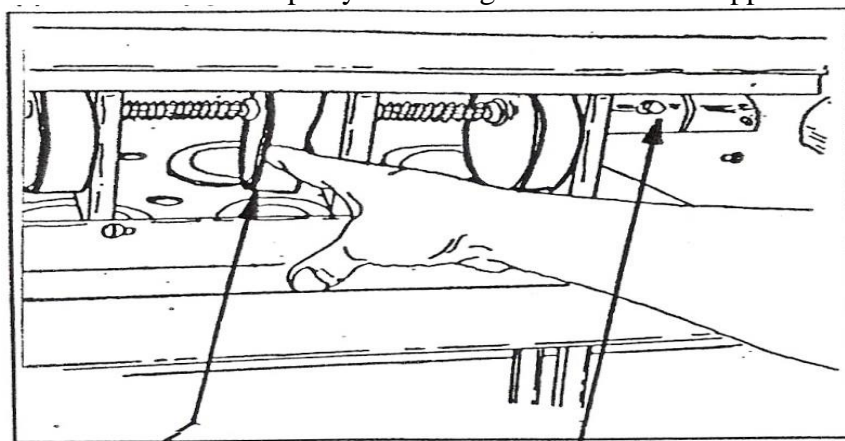
Move Handle towards the centre of drill to close off.

To give added protection, sponge pads can be treated with any strongly odoured insecticide powder – DIASINIT, LINDANE, MALATHION, and THIMET.

Note: If your farm or shed has rodents, we recommend that the seed pads are removed after each use of the machine.

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.



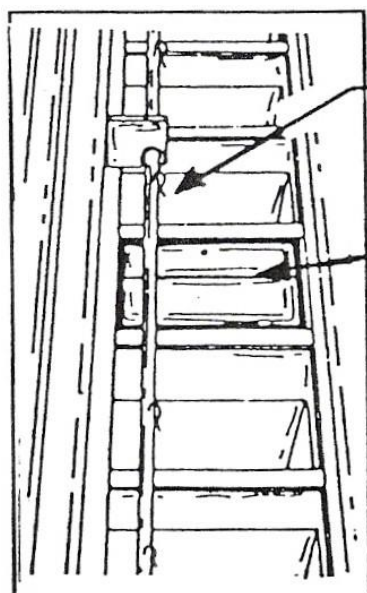
Push pads away to clean out seeds. To remove pads, loosen this setscrew and move shaft to the left.

SPECIAL PURPOSE SEEDING

If the quantity of seed is too small to accurately weigh, then collect the seed from 10 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 125mm (10”) 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.



Remove ‘R’ clip.

Insert blank-off plate here.

Blank off plates are inserted on each alternative seeder outlet.

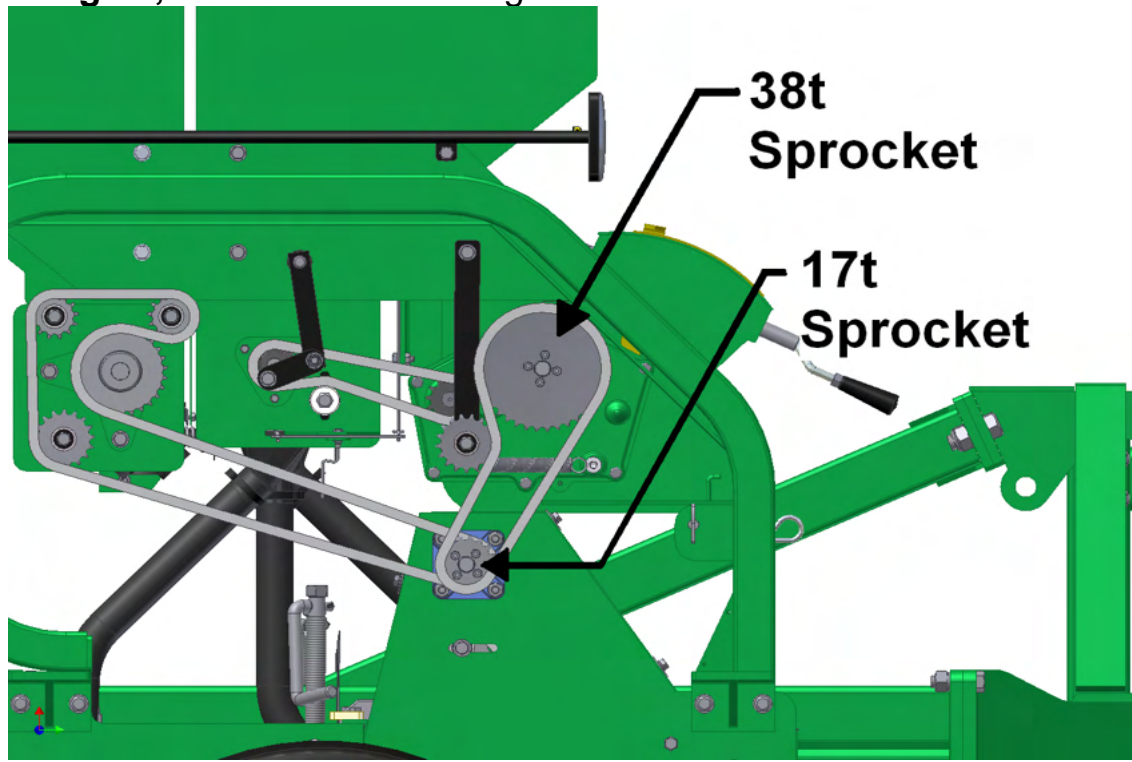
For calculating your seeding rates:

- If every **second row** is blanked off (250mm (10”) spacing) catch seed from five outlets and divide by 6 (not 3).
- If every **second and third row** are blanked off (375mm (15”) spacing) catch seed from five outlets and divide by 9 (not 3)

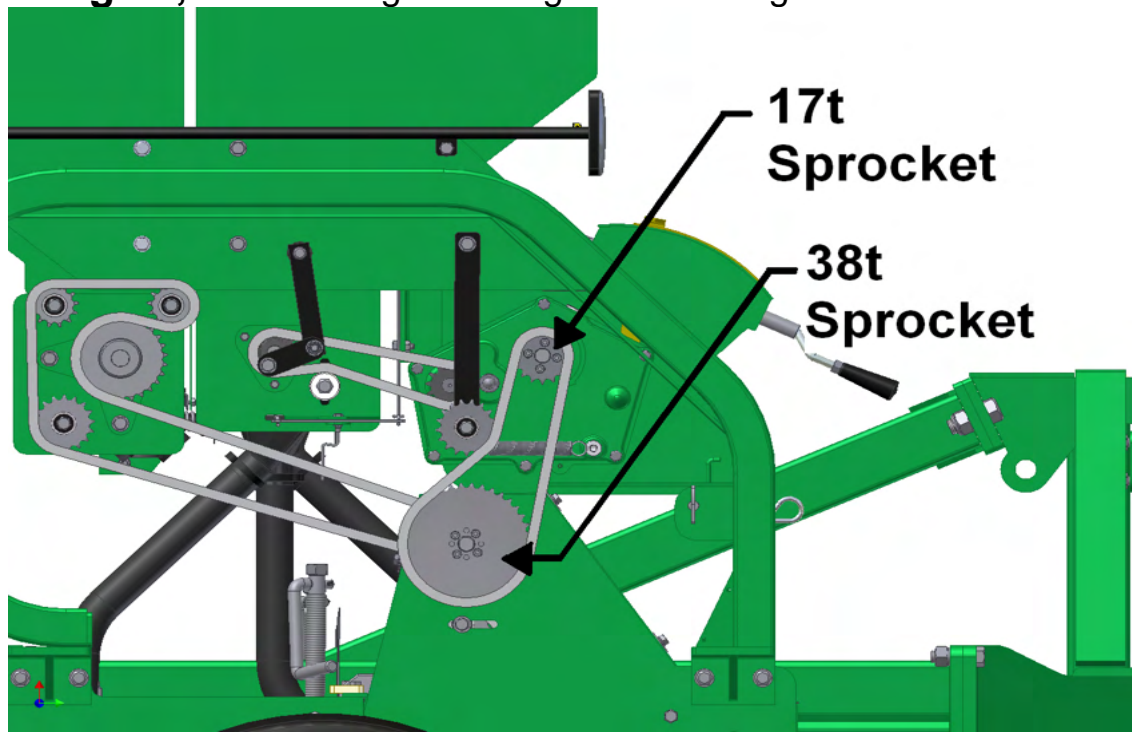
CHANGING THE GEARBOX RATIO: Range 1 – Range 2

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.



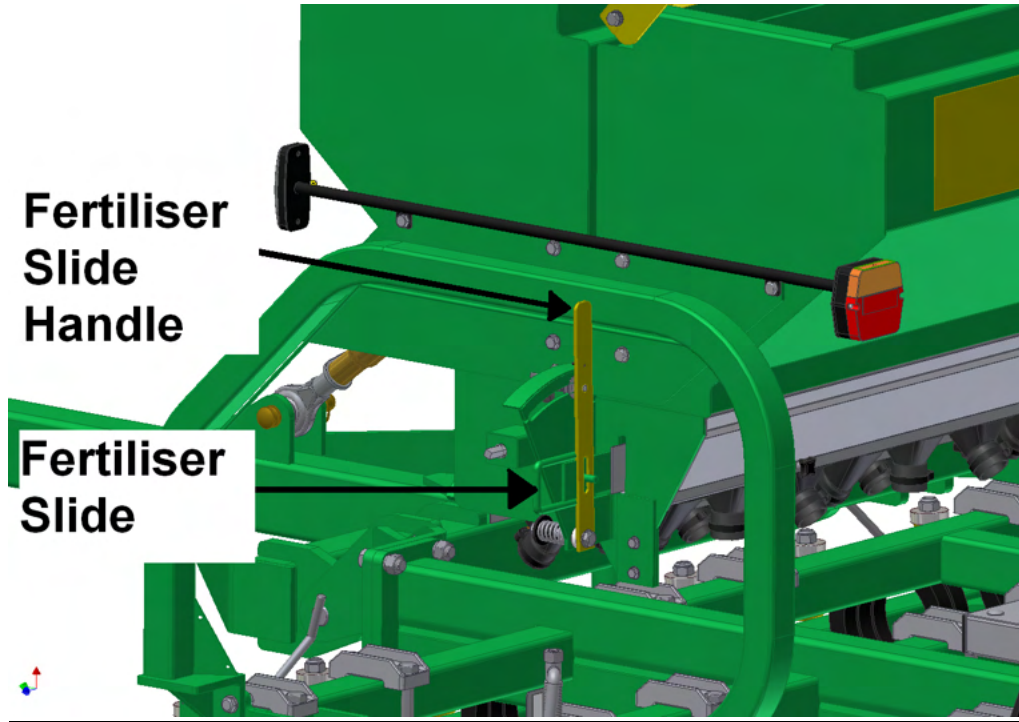
Range 2; Ratio for high seeding rates and big seeds.



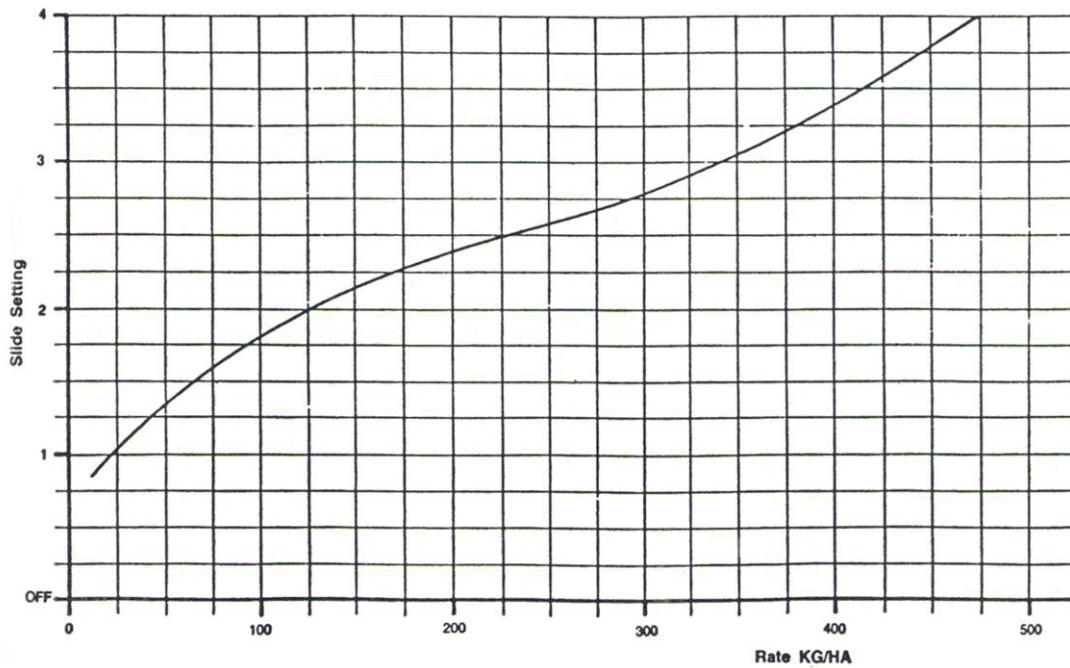
THE FERTILISER SYSTEM

Different types of fertilisers 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

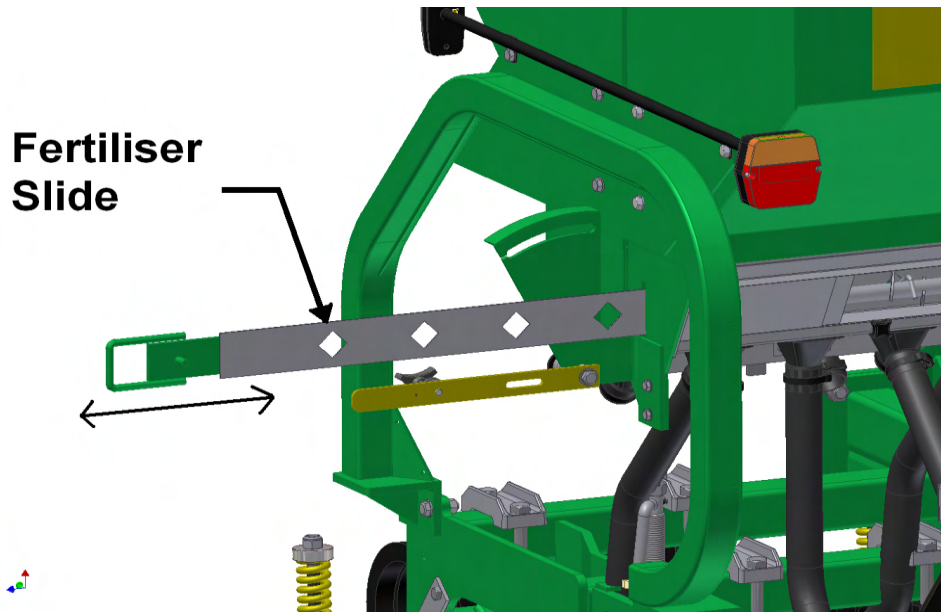
HOPPER

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,

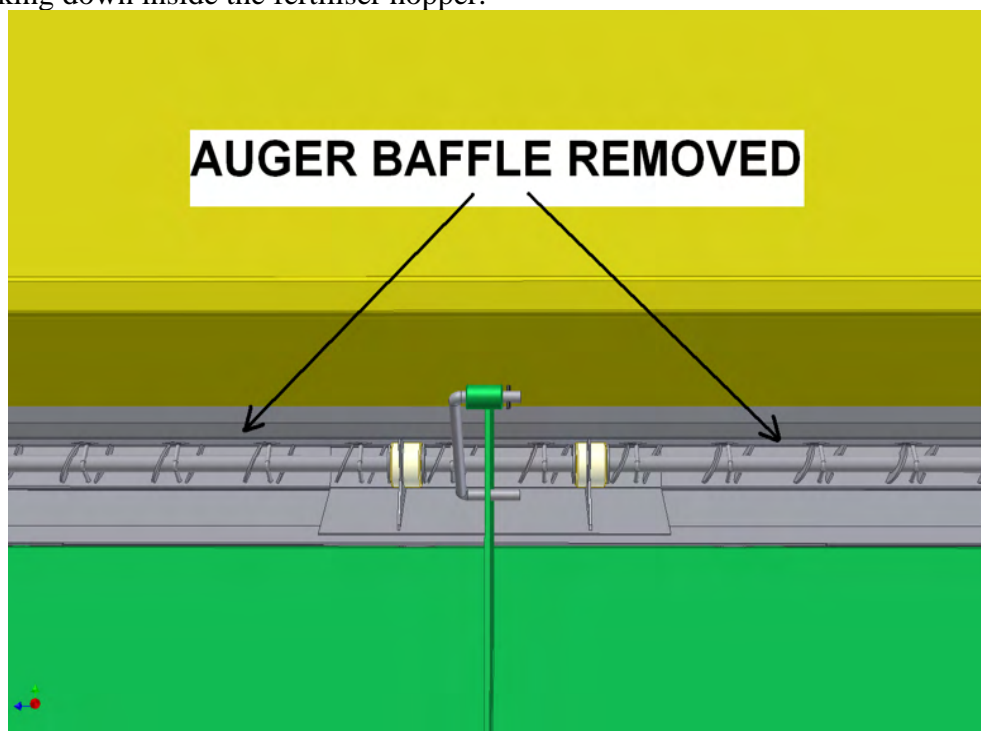
To empty or clean the fertiliser hopper remove the Auger Baffle and the rear Inspection Panels and brush out any remaining fertiliser.

FERTILISER SLIDE REMOVAL

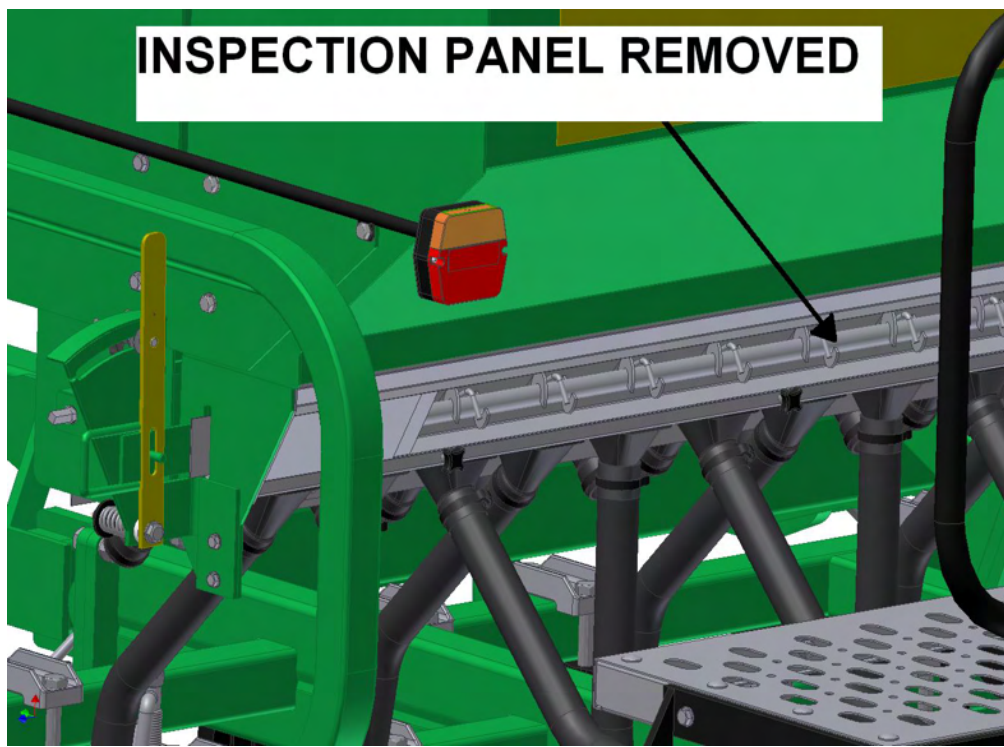


AUGER BAFFLE REMOVED

Looking down inside the fertiliser hopper.



REAR INSPECTION PANELS REMOVED



GENERAL MAINTENANCE

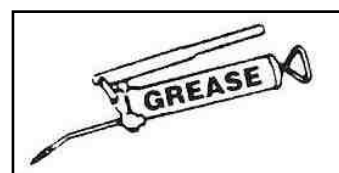
LUBRICATION

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: Do not 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.

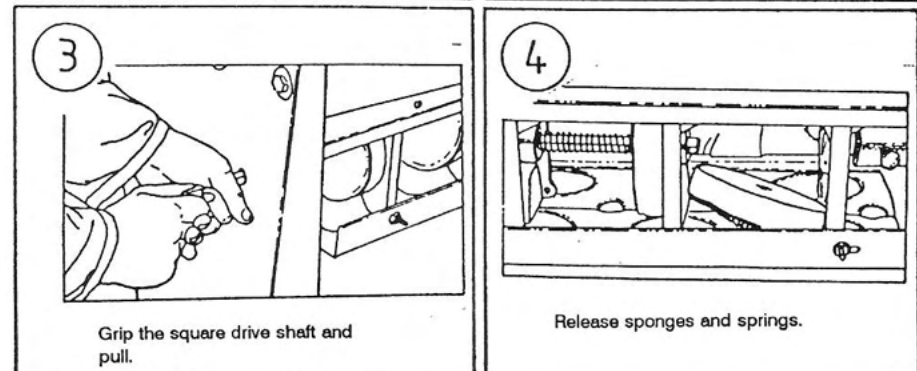
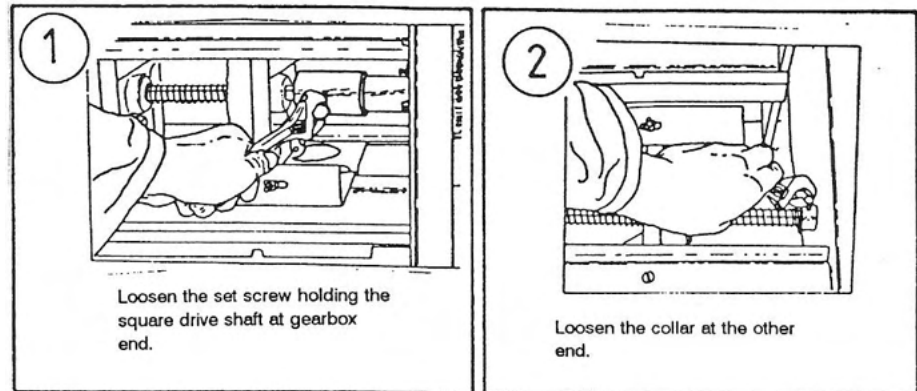
CARE OF THE SPONGE PADS

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 are seeds behind it.

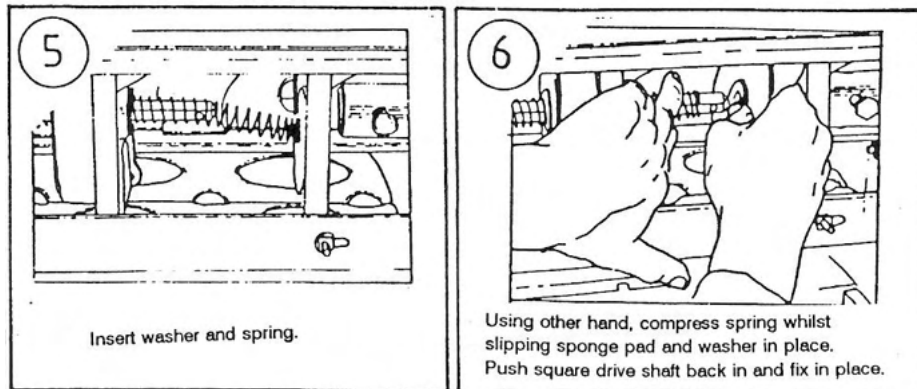
To empty the hopper of seed, push the pads away from the seeder units to let the seed fall through. Do not leave seed lodged between the pad and seeder unit, as this will distort the pad giving erratic sowing. The sponge pads are replaced as shown below.

REPLACEMENT OF SPONGE PADS

Removing:



Inserting:



SEASONAL STORAGE

The drill should be thoroughly cleaned, 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 clamps have been designed to stop the tines from “walking” along the tool bars.

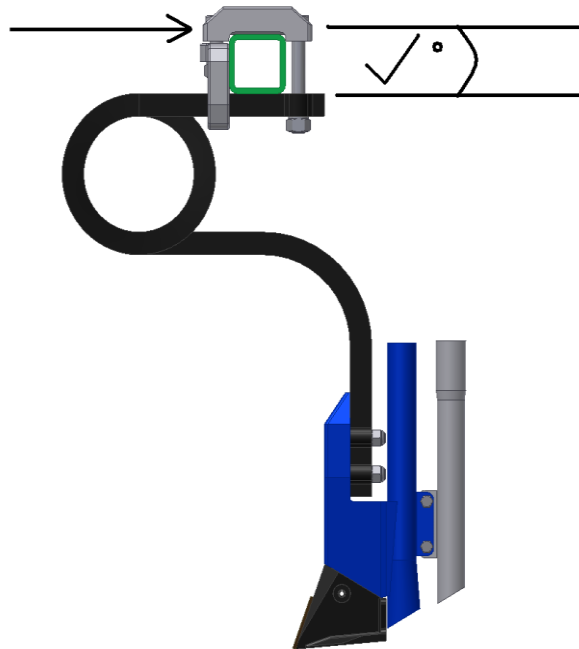
Some care needs to be taken when fitting these new clamps.

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.

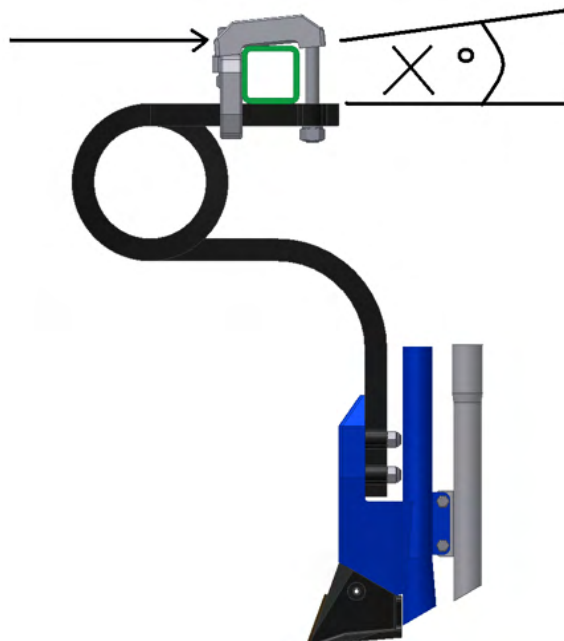
CORRECT FITMENT

Bolts tightened evenly, Saddle Clamp parallel with Tine Leg

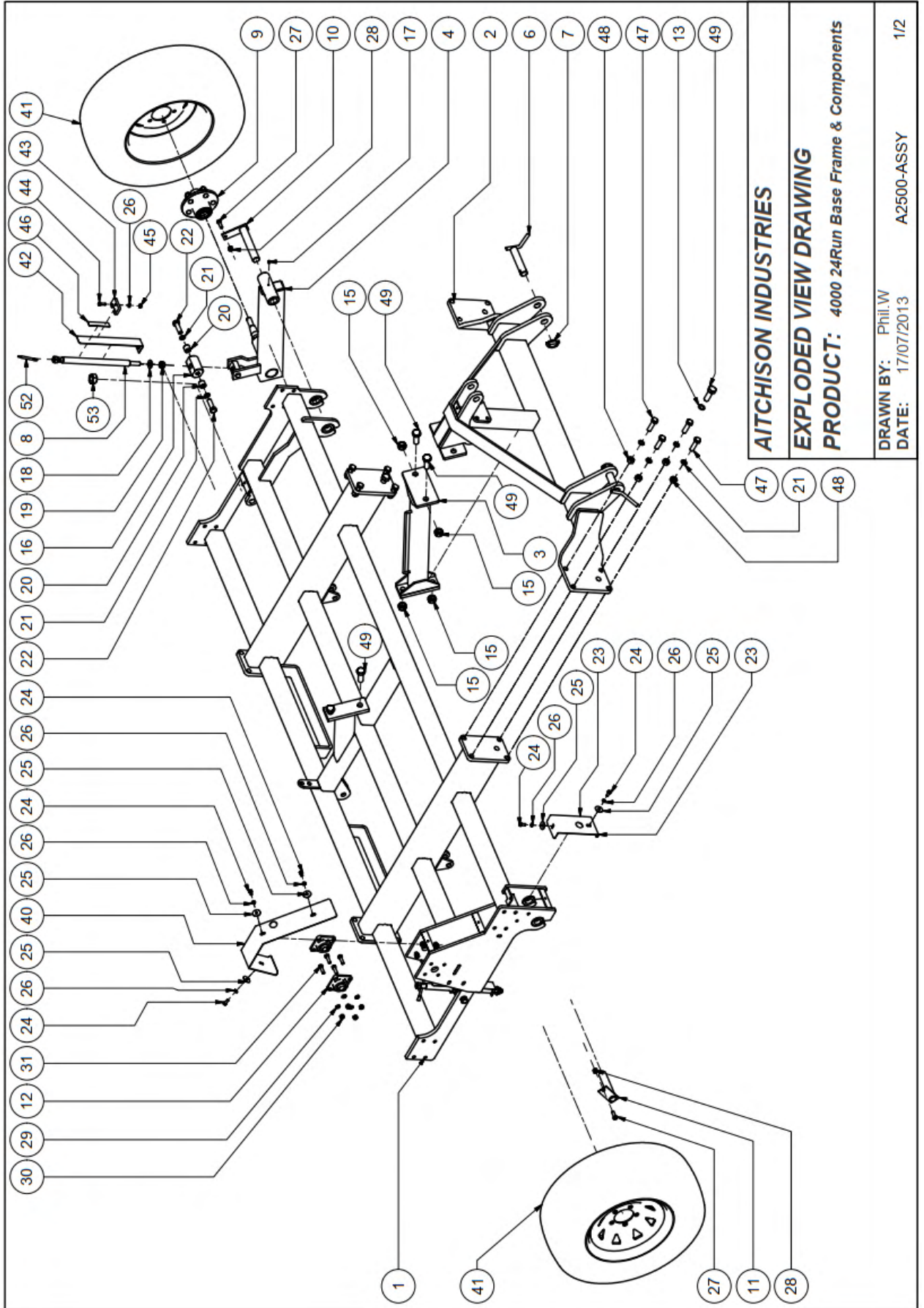


INCORRECT FITMENT

Front bolt too tight, Saddle Clamp leaning forward



PARTS BREAKDOWN



AITCHISON INDUSTRIES

EXPLODED VIEW DRAWING

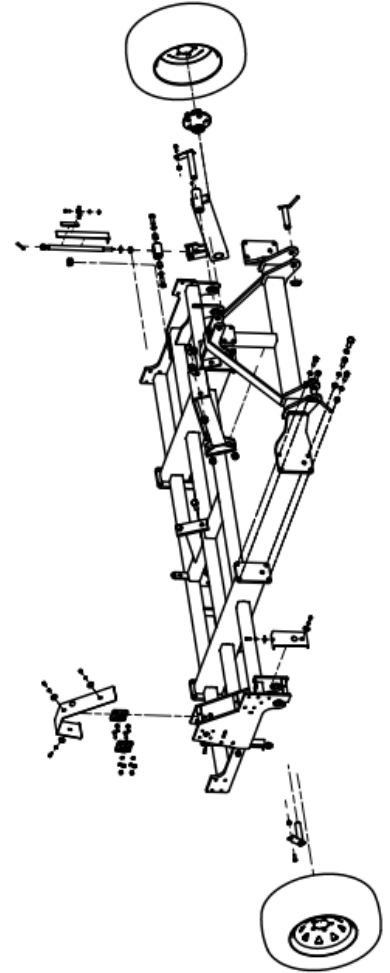
PRODUCT: 4000 24Run Base Frame & Components

DRAWN BY: Phil.W
DATE: 17/07/2013

A2500-ASSY

1/2

Parts List			Parts List				
ITEM	QTY	DESCRIPTION	PART NUMBER	ITEM	QTY	DESCRIPTION	PART NUMBER
1	1	3m Frame Assembly	A2501	28	2	M10 Nyloc Nut	9142
2	1	4000 Head Stock Assembly	A2502	29	10	10mm Spring Washer	9041
3	1	Headstock Stay Assembly	A2503	30	10	M10 Nut ZP	9141
4	1	Depth Leg Assembly	A2504	31	8	M10 x 35 Bolt	8402H
5	1	Drive Leg Setup	A2580-ASSY	32	1	22T Sprocket 1/2" Pitch 20mm Bore	A2500-09
6	2	AIL Cat 2 Hitch Pin	A2327	33	1	4000 Series DL to LS Chain	A2500-08
7	2	11mm Lynch Pin	9288	34	1	6 x 50 Roll Pin	9262
8	2	Depth Control Rod Assembly	A2506	35	2	6200 Bearing	9219
9	1	Trojan 5 Stud Hub	TR 082030	36	2	17T Plate Sprocket Tensioner	A2350-01
10	1	4000 Depth Leg Pivot Pin	A2507	37	2	DL to LS Chain Tensioner Spacer	A2500-04
11	1	4000 Drive Leg Pivot Pin	A2508	38	2	M10 x 50 Bolt	8403H
12	2	F204 Bearing & Housing	9221 / 92205	39	1	10mm HD Flat Washer	9040
13	2	20mm Spring Washer	9076	40	1	4000 Lay Shaft Cover	A2500-05
15	4	M20 Nyloc Nut	9172	41	2	215/75R 14C Wheel Assembly	A2500-10
16	2	Threaded Top Trunion	A2309	42	2	Depth Leg Depth Gauge	A2500-06
17	3	M6 Grease Nipple Straight	9323	43	2	Depth Gauge Retainer	A2500-07
18	2	16mm ZP Washer	9063	44	2	M8 x 25 Bolt	8305H
19	2	M16 Nyloc Nut	16A	45	2	M8 Nut	9106
20	4	4000 Depth Leg Trunion Keeper	A2500-01	46	2	Decal - GF Depth Control	D1525
21	12	16mm Spring Washer	9061	47	8	M16 x 55 Bolt	8603H
22	4	M16 x 50 Bolt	8616H	48	8	M16 Nut	9161
23	1	4000 Leg Pivot Cover	A2500-03	49	6	M20 x 55 Bolt	8718H
24	5	M8 x 20 Bolt	8311H	50	1	1/2" Chain Half Link	ZCH1/2L
25	5	8mm Fender Washer	9032	51	1	1/2" Chain Joiner Link	ZCH1/2J
26	7	8mm Spring Washer	9030	52	2	4000 Depth Control Handle	A2600-01
27	2	M10 x 30 Bolt	8415H	53	2	M24 Nut	9193



AITCHISON INDUSTRIES

EXPLODED VIEW DRAWING

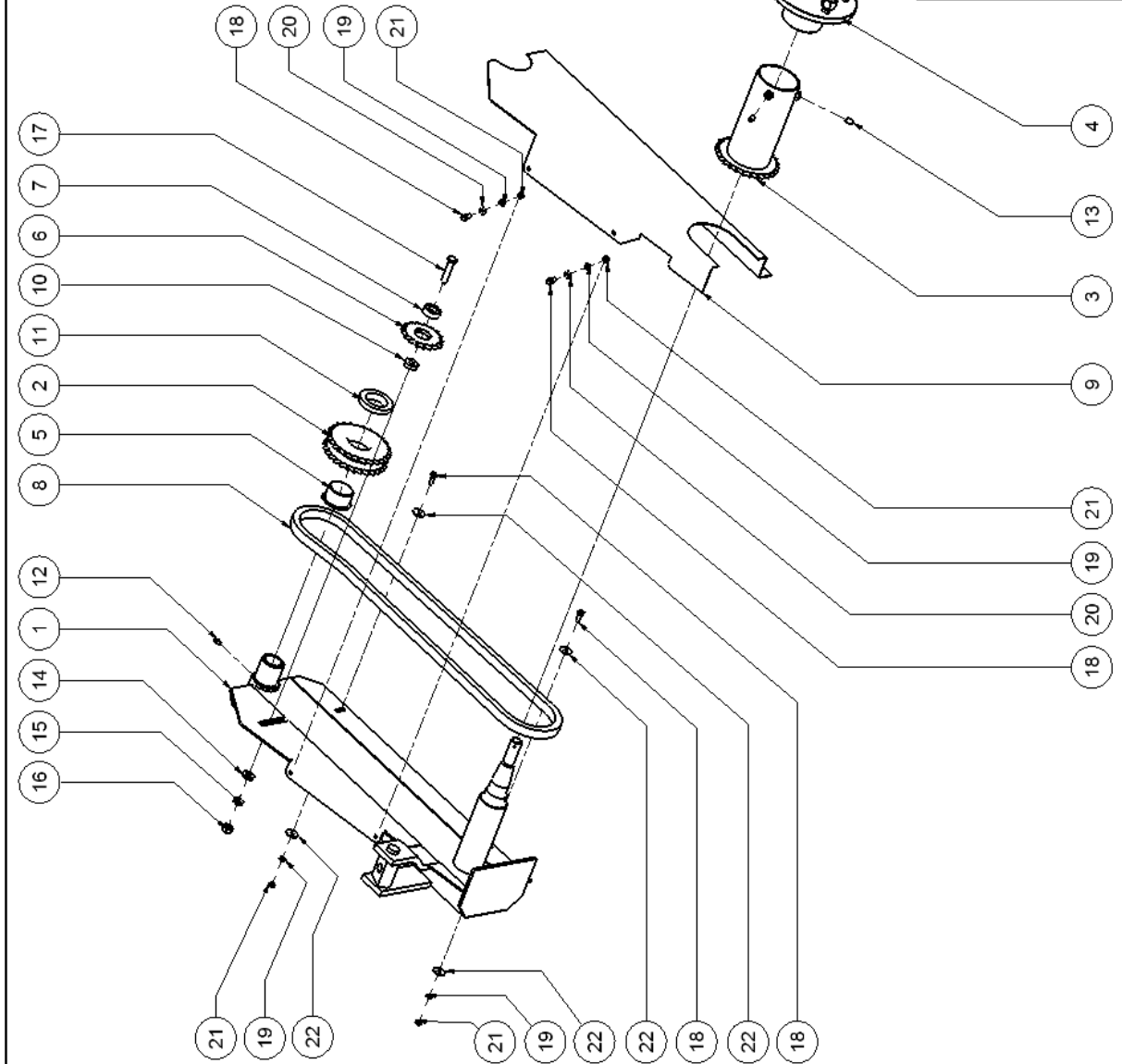
PRODUCT: 4000 24Run Base Frame & Components
Parts

DRAWN BY: Phil.W
DATE: 17/07/2013

A2500-ASSY

2/2

Parts List			
ITEM	QTY	DESCRIPTION	PART NUMBER
1	1	Drive Leg Assembly	A2505
2	1	27T Idler Sprocket	A2580-07
3	1	Drive Hub Spacer & Sprocket (4000 Series)	A2581
4	1	Trojan Drive Hub (4000 Series)	A2580-01
5	1	FMB 4026DU	A2580-08
6	1	17T Plate Sprocket Tensioner	A2350-01
7	1	6200 Bearing	9219
8	1	Drive Leg Chain 1/2" @ 1450mm	A2580-06
9	1	Drive Leg Cover Face Plate	A2580-02
10	1	Drive Leg Tensioner Spacer	A2580-03
11	1	Drive Leg Sprocket Keeper	A2580-04
12	1	M6 Grease Nipple Straight	9323
13	2	M8 x 12 Grub Screw	82155
14	1	10mm HD Flat Washer	9040
15	1	10mm Spring Washer	9041
16	1	M10 Nut	9141
17	1	4000 Drive Leg Tensioner Bolt	A2580-05
18	4	M6 x 16 Bolt	8208H
19	4	6mm Spring Washer	9021
20	2	6mm Flat Washer	9023
21	4	M6 Nut	9121
22	4	6mm Fender Washer	9022
23	1	1/2" Chain Half Link	ZCH1/2L
24	1	1/2" Chain Joiner	ZCH1/2J



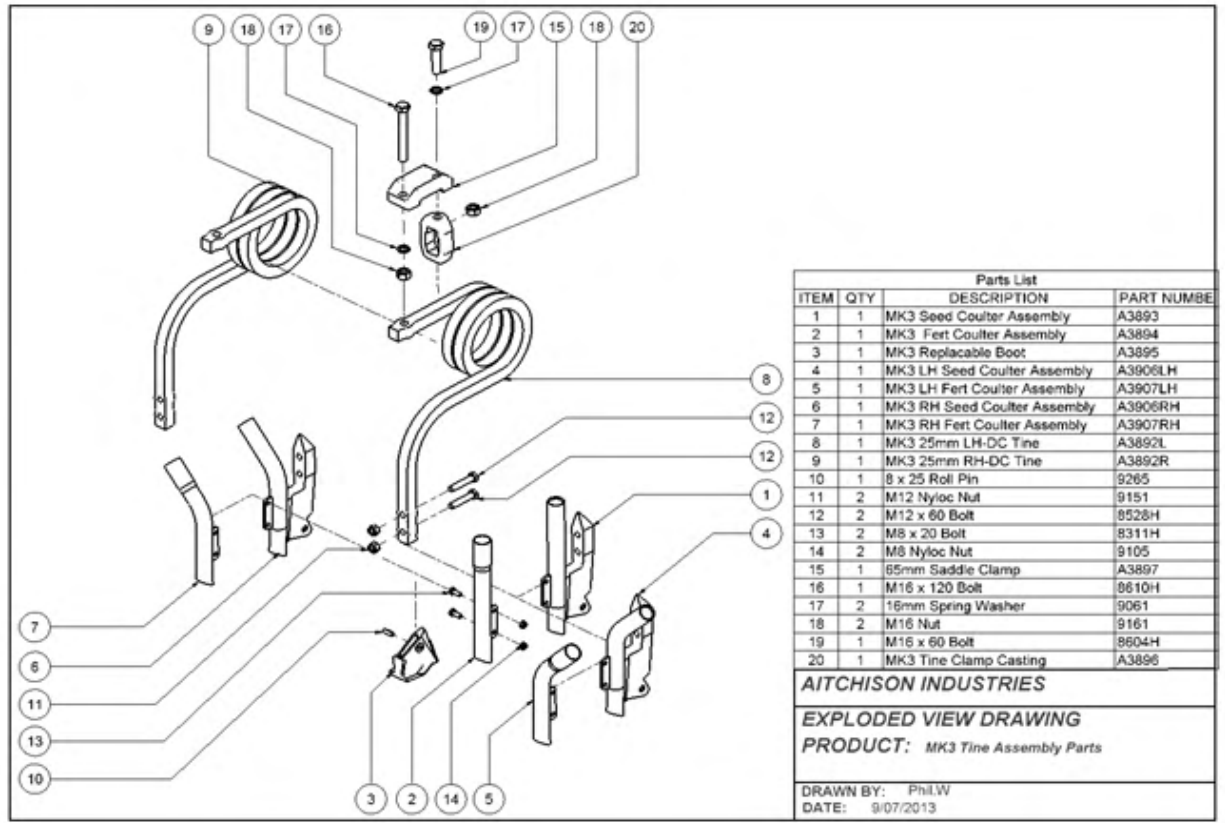
AITCHISON INDUSTRIES

EXPLODED VIEW DRAWING

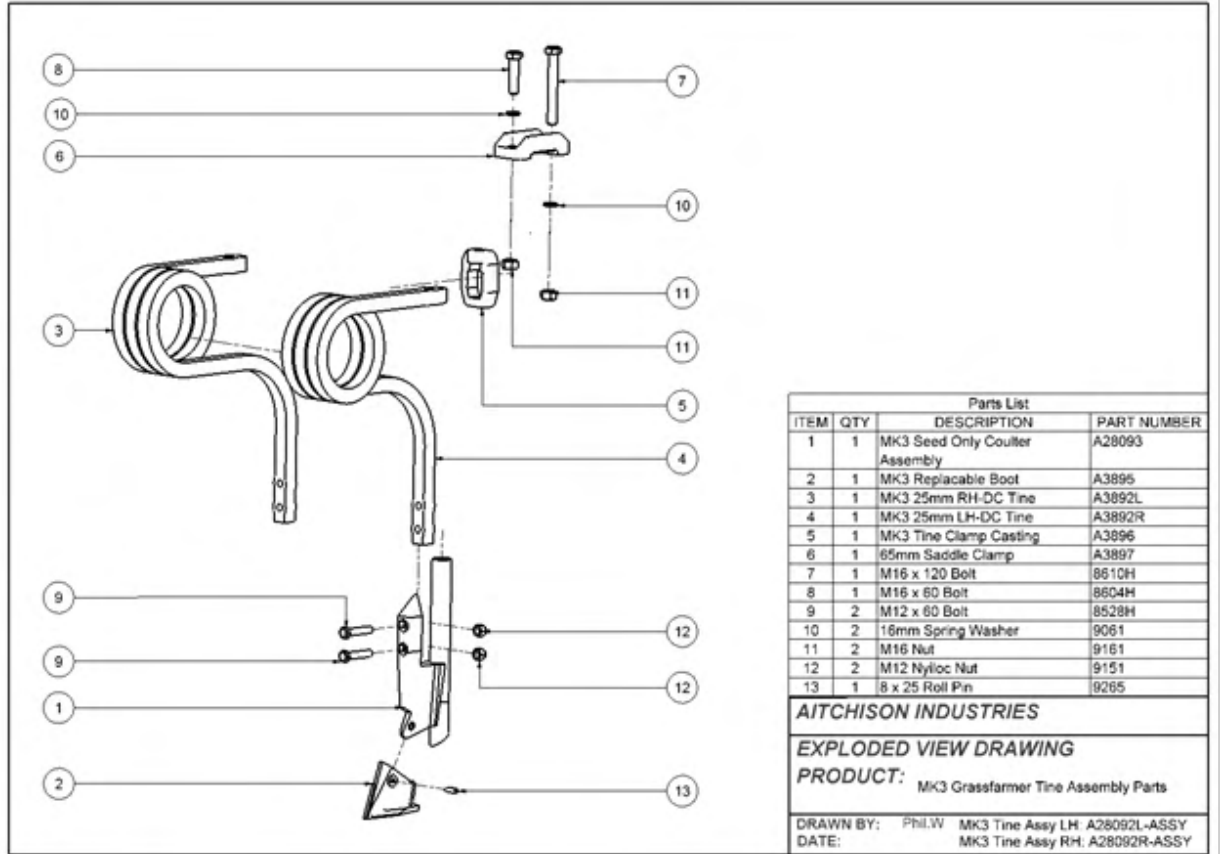
PRODUCT: Drive Leg Setup Parts

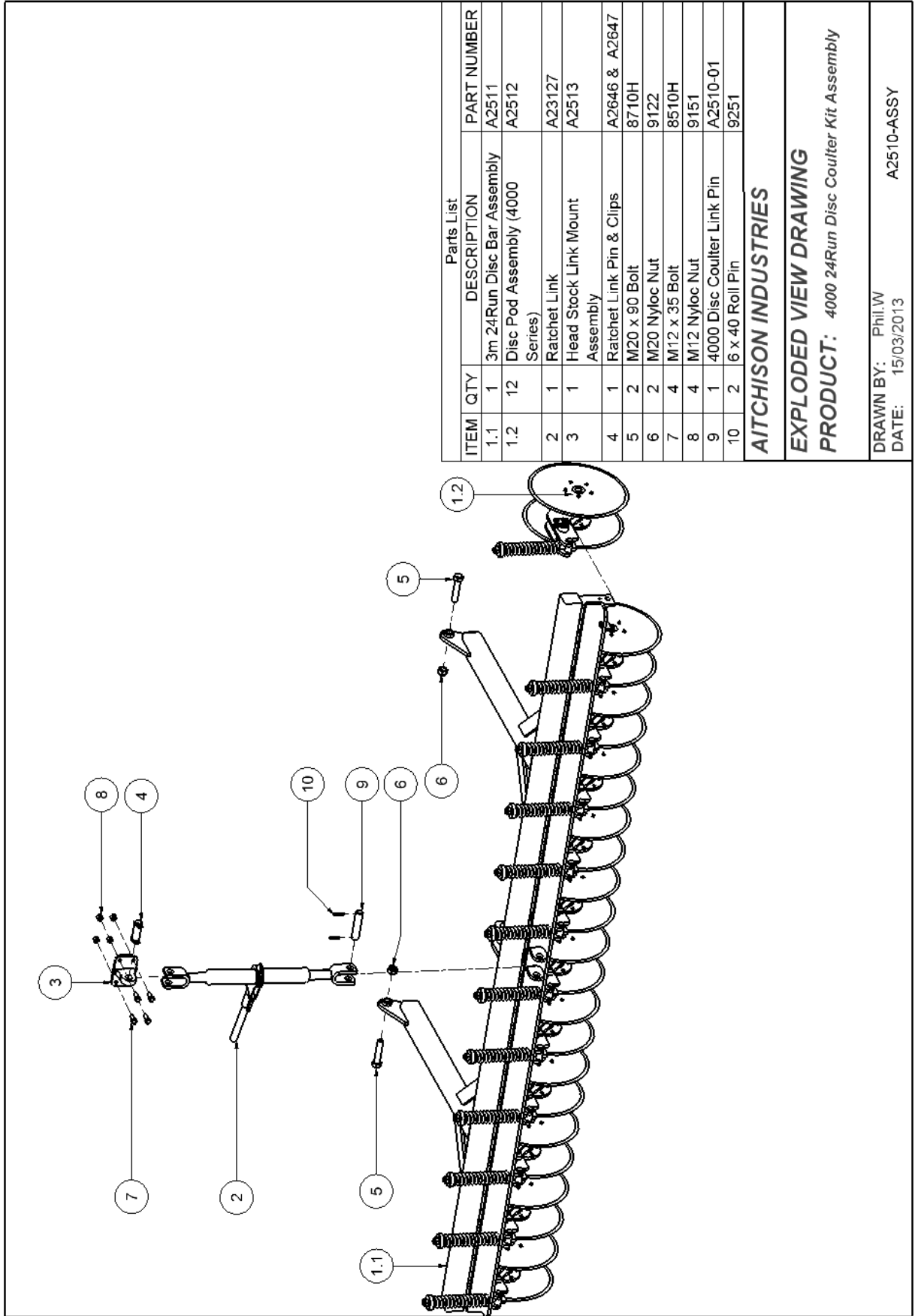
DRAWN BY: Phil.W
DATE: 17/07/2013
A2580-ASSY

SEED & FERTILISER MODELS



SEED ONLY MODELS





Parts List			
ITEM	QTY	DESCRIPTION	PART NUMBER
1.1	1	3m 24Run Disc Bar Assembly	A2511
1.2	12	Disc Pod Assembly (4000 Series)	A2512
2	1	Ratchet Link	A23127
3	1	Head Stock Link Mount Assembly	A2513
4	1	Ratchet Link Pin & Clips	A2646 & A2647
5	2	M20 x 90 Bolt	8710H
6	2	M20 Nyloc Nut	9122
7	4	M12 x 35 Bolt	8510H
8	4	M12 Nyloc Nut	9151
9	1	4000 Disc Coultter Link Pin	A2510-01
10	2	6 x 40 Roll Pin	9251

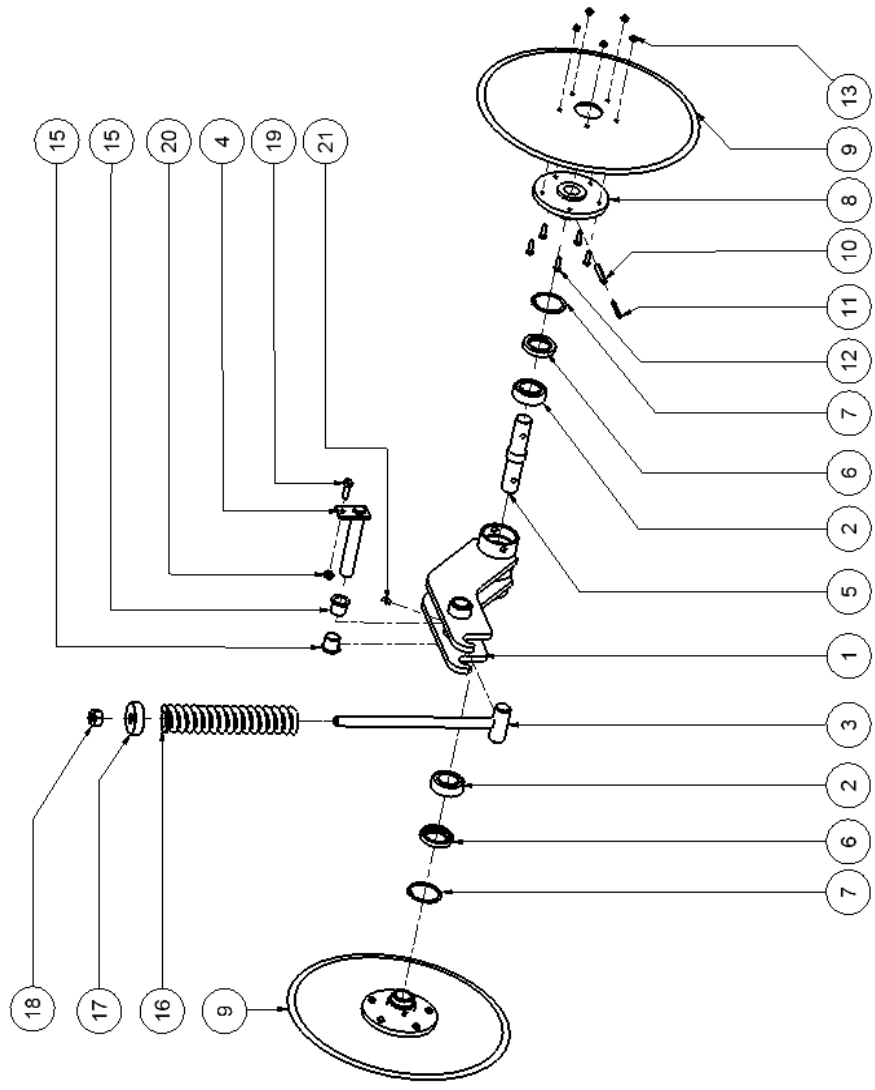
AITCHISON INDUSTRIES

EXPLODED VIEW DRAWING

PRODUCT: 4000 24Run Disc Coultter Kit Assembly

DRAWN BY: Phil.W
DATE: 15/03/2013

A2510-ASSY



Parts List

ITEM	QTY	DESCRIPTION	PART NUMBER
1	1	Disc Pod (4000 Series)	A2514
2	2	6205 Bearing	9212
3	1	Threaded Rod	A23120
4	1	Disc Pod Pivot Pin Assembly	A24982
5	1	4000 Series Disc Axle	A2512-01
6	2	35 x 52 x 8 Seal	A28046-14
7	2	52mm Internal Circlip	32
8	2	Disc Mounting Flange	A28081-02
9	2	14" 5 Stud Disc (Plain)	A3022-04
10	2	8 x 45 Roll Pin	9266
11	2	5 x 45 Roll Pin	9254
12	10	M6x20 Bolt	8205H
13	10	M6 Nyloc Nut	9109
15	2	FMB 2021.5DU	A3710-52
16	1	Disc Coultler Spring	A23122
17	1	Spring Retaining Washer (4000 Series)	A2512-02
18	1	M16 Nyloc Nut	16A
19	1	M8 x 25 Bolt	8305H
20	1	M8 Nyloc Nut	9105
21	2	M6 Grease Nipple Straight	9323

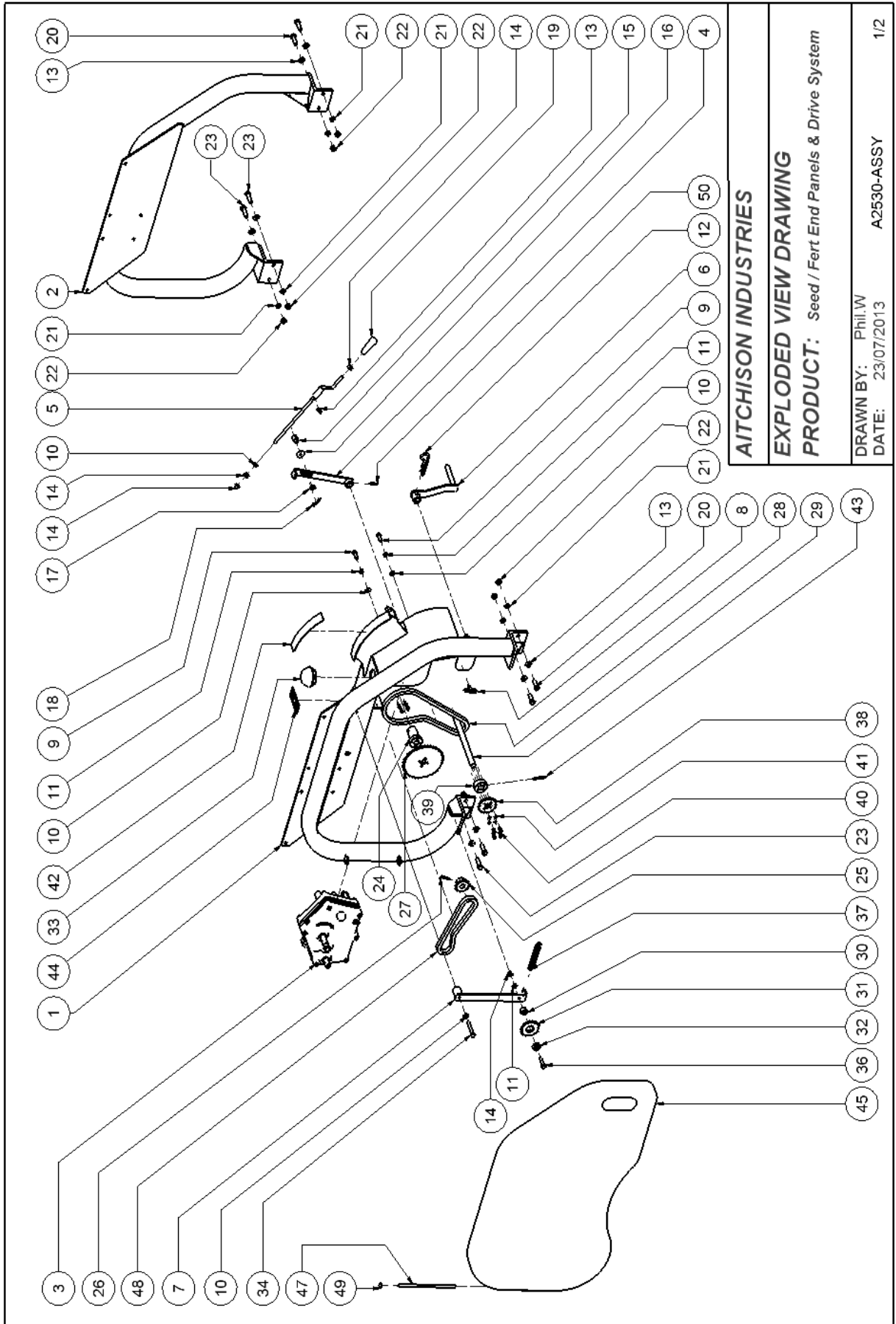
AITCHISON INDUSTRIES

EXPLODED VIEW DRAWING

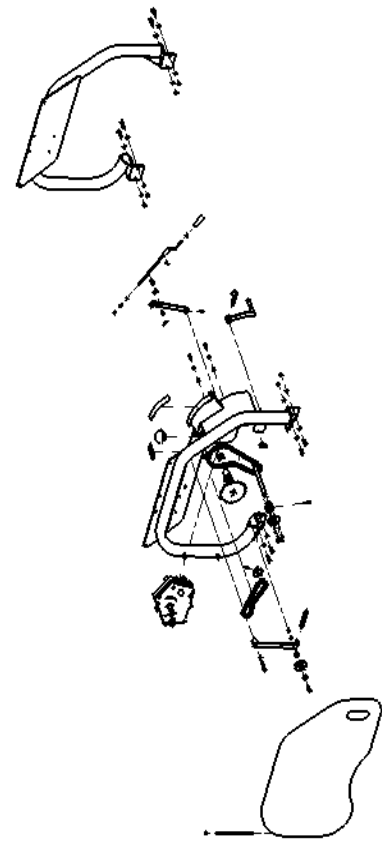
PRODUCT: Disc Pod Assembly (4000 Series)

DRAWN BY: Phil.W
DATE: 15/03/2013

A2512

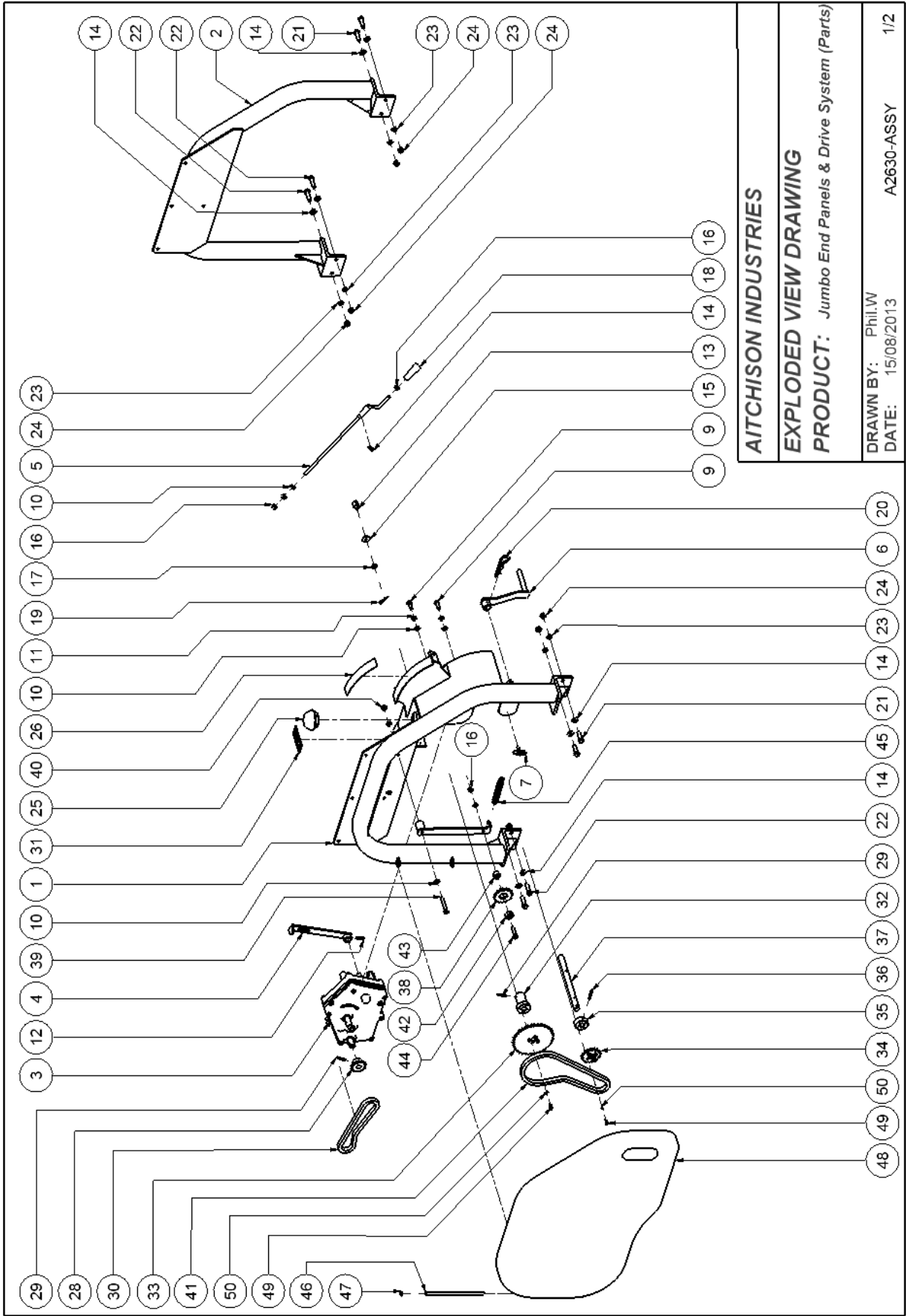


Parts List			Parts List				
ITEM	QTY	DESCRIPTION	PART NUMBER	ITEM	QTY	DESCRIPTION	PART NUMBER
1	1	4000 Seed & Fert D-End Panel Assembly	A2531	27	1	38T Plate Sprocket ZP	A2344
2	1	4000 Seed & Fert Non-D-End Panel Assembly	A2532	28	1	4000 Gear Box Chain	A2530-06
3	1	GF/Roller Gearbox Assembly	A2342	29	1	4000 Seed&Fert Lay Shaft	A2530-01
4	1	Gearbox Calibration Pointer Assembly	A3570-04	30	1	4000 Seed&Fert G-B Tensioner Spacer	A2530-02
5	1	Seed Adjustor Lever Assembly	A2333	31	1	17T Plate Sprocket Tensioner	A2350-01
6	1	Seed Calibration Handle	A230-25	32	1	6200 Bearing	9219
7	1	4000 Gear Box Tensioner Arm Assembly	A2533	33	1	65mm Plastic Cap	A3719-03
8	1	M8 Anti-Luce Fastener	A2821-07	34	1	M10 x 70 Bolt	8423H
9	3	M10 x 30 Bolt	8415H	35	1	M10 Nyloc Nut	9142
10	6	10 mm Flat Washer	9042	36	1	M10 x 45 Bolt	8404H
11	4	10mm Spring Washer	9041	37	1	Seed Agitator Spring	A2338
12	1	5mm R Clip	9289	38	1	17T Plate Sprocket 1/2"	A2347
13	9	12mm Flat Washer	9051	39	1	Sprocket Boss 3000 ZP	A2343-01
14	4	M10 Nut	9141	40	8	M6 x 20 S/S Cap Screw	8202S
15	1	Swivel Collar	A2334	41	8	6mm Spring Washer	9021
16	1	M10 Fender Washer	9037	42	1	Gearbox Calibration Decal	D3032
17	1	10mm HD Flat Washer	9040	43	1	6 x 50 Roll Pin	9262
18	1	2mm R Clip	9282	44	1	Decal 4000 Rodent Stop	D4001
19	1	Plastic Knob Long	A2332	45	1	4000 Seed & Fert Drive Cover	A2530-04
20	4	M12 x 40 Bolt	8503H	46	1	M8 Nut	9106
21	8	12mm Spring Washer	9052	47	1	4000 End Panel Hinge Pin	A2530-05
22	8	M12 Nut	9152	48	1	GB to SB Drive Chain	A2530-07
23	4	M12 x 45 Bolt	8504H	49	1	M10 Starlock Washer (Capped)	9045
24	1	70mm Sprocket Boss	A2070-01	50	1	6 x 30 Roll Pin	9250
25	1	13T Sprocket 1/2" Pitch Boss 20ID	A2339-01	51	2	1/2" Chain Half Link	ZCH1/2J
26	2	6 x 40 Roll Pin	9251	52	2	1/2" Chain Joiner	ZCH1/2L

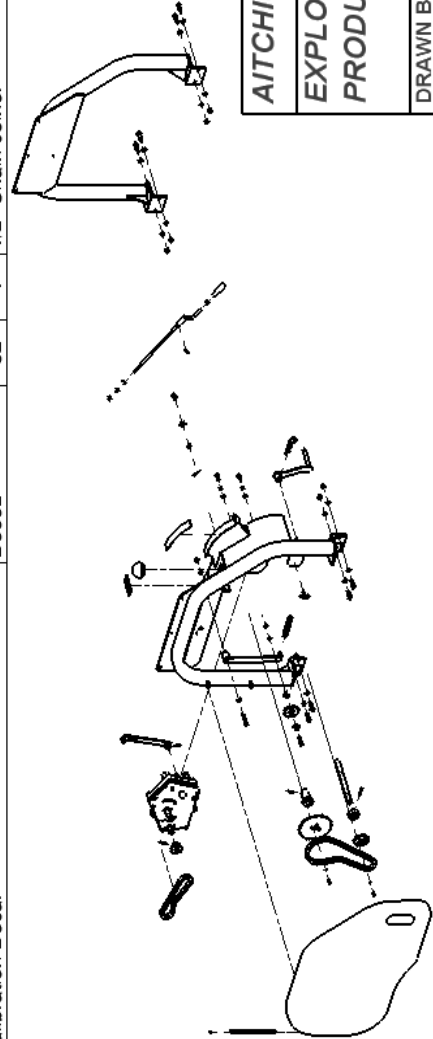


AITCHISON INDUSTRIES
EXPLODED VIEW DRAWING
PRODUCT: Seed / Fert End Panels & Drive System
 (Part Numbers)

DRAWN BY: Phil.W
DATE: 23/07/2013
A2530-ASSY
 2/2



Parts List			Parts List				
ITEM	QTY	DESCRIPTION	PART NUMBER	ITEM	QTY	DESCRIPTION	PART NUMBER
1	1	4000 Jumbo Drive End Panel Assembly	A2631	27	1	M8 Nut	9106
2	1	4000 Jumbo N-Drive End Panel Assembly	A2632	28	1	13T Sprocket 1/2" Pitch Boss 201D	A2339-01
3	1	GF/Roller Gearbox Assembly	A2342	29	2	6 x 40 Roll Pin	9251
4	1	Gearbox Calibration Pointer Assembly	A3570-04	30	1	GB to SB Drive Chain	A2530-07
5	1	Seed Adjustor Lever Assembly	A2333	31	1	Decal 4000 Rodent Stop	D4001
6	1	Seed Calibration Handle	A230-25	32	1	70mm Sprocket Boss	A2070-01
7	1	M8 Anti-Luce Fastener	A2821-07	33	1	38T Plate Sprocket ZP	A2344
8	1	4000 Gear Box Tensioner Arm Assembly	A2533	34	1	17T Plate Sprocket 1/2"	A2347
9	3	M10 x 30 Bolt	8415H	35	1	Sprocket Boss 3000 ZP	A2343-01
10	6	10 mm Flat Washer	9042	36	1	6 x 50 Roll Pin	9262
11	4	10mm Spring Washer	9041	37	1	4000 Jumbo Lay Shaft	A2630-01
12	1	6 x 30 Roll Pin	9250	38	1	17T Plate Sprocket Tensioner	A2350-01
13	1	Swivel Collar	A2334	39	1	M10 x 70 Bolt	8423H
14	9	12mm Flat Washer	9051	40	1	M10 Nyloc Nut	9142
15	1	M10 Fender Washer	9037	41	1	4000 Gear Box Chain	A2530-06
16	4	M10 Nut	9141	42	1	6200 Bearing	9219
17	1	10mm HD Flat Washer	9040	43	1	4000 Seed&Fert G-B Tensioner Spacer	A2530-02
18	1	Plastic Knob Long	A2332	44	1	M10 x 45 Bolt	8404H
19	1	2mm R Clip	9282	45	1	Seed Agitator Spring	A2338
20	1	5mm R Clip	9289	46	1	4000 End Panel Hinge Pin	A2530-05
21	4	M12 x 40 Bolt	8503H	47	1	M10 Star Cap	9045
22	4	M12 x 45 Bolt	8504H	48	1	4000 Jumbo Drive Cover	A2630-02
23	8	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	1	65mm Plastic Cap	A3719-03	51	1	1/2" Chain Half Link	ZCH1/2L
26	1	Gearbox Calibration Decal	D3032	52	1	1/2" Chain Joiner	ZCH1/2J



AITCHISON INDUSTRIES

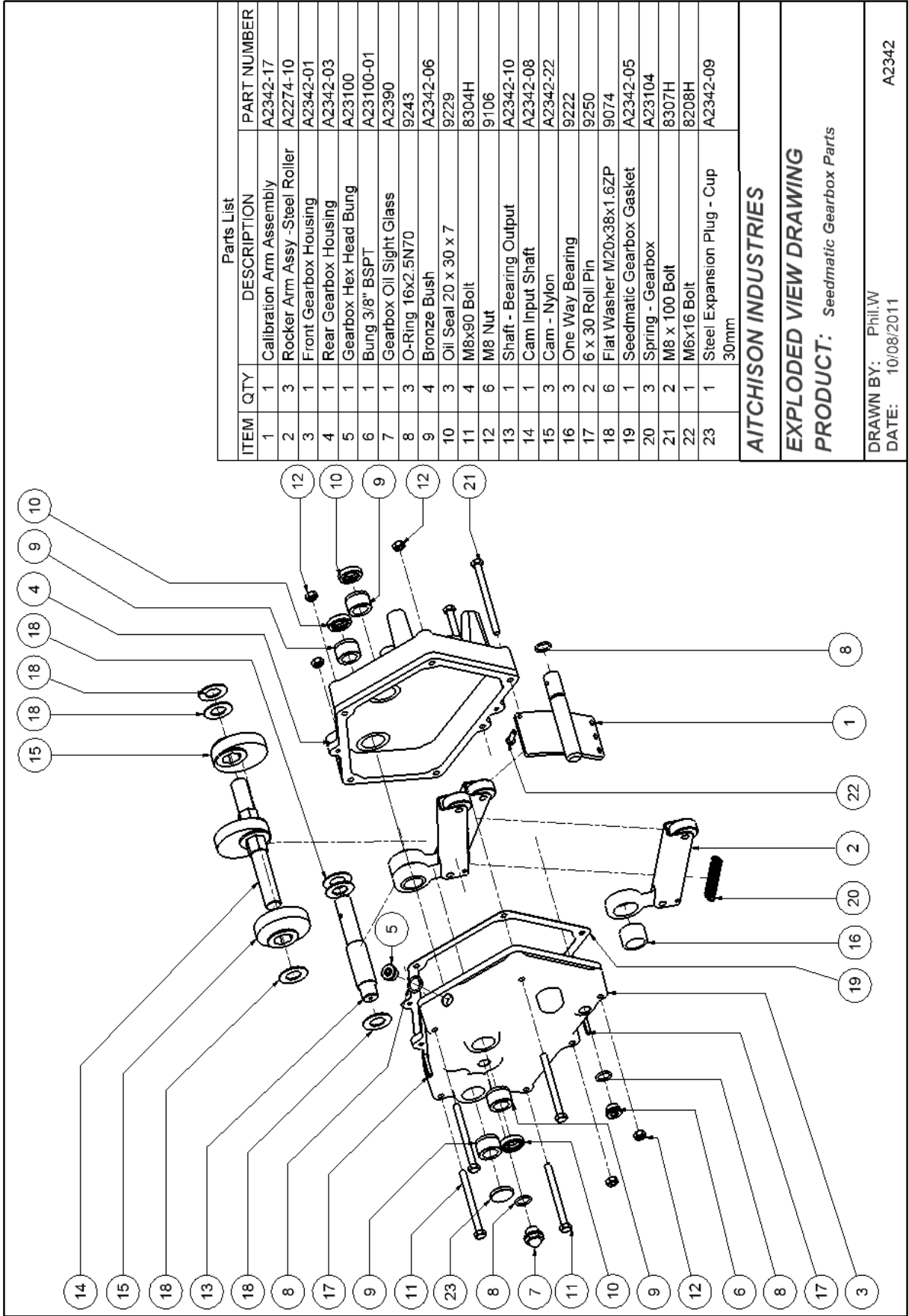
EXPLODED VIEW DRAWING

PRODUCT: Jumbo End Panels & Drive System
(Numbers)

DRAWN BY: Phil.W
DATE: 16/08/2013

A2630-ASSY

2/2



Parts List			
ITEM	QTY	DESCRIPTION	PART NUMBER
1	1	Calibration Arm Assembly	A2342-17
2	3	Rocker Arm Assy -Steel Roller	A2274-10
3	1	Front Gearbox Housing	A2342-01
4	1	Rear Gearbox Housing	A2342-03
5	1	Gearbox Hex Head Bung	A23100
6	1	Bung 3/8" BSPT	A23100-01
7	1	Gearbox Oil Sight Glass	A2390
8	3	O-Ring 16x2.5N70	9243
9	4	Bronze Bush	A2342-06
10	3	Oil Seal 20 x 30 x 7	9229
11	4	M8x90 Bolt	8304H
12	6	M8 Nut	9106
13	1	Shaft - Bearing Output	A2342-10
14	1	Cam Input Shaft	A2342-08
15	3	Cam - Nylon	A2342-22
16	3	One Way Bearing	9222
17	2	6 x 30 Roll Pin	9250
18	6	Flat Washer M20x38x1.6ZP	9074
19	1	Seedmatic Gearbox Gasket	A2342-05
20	3	Spring - Gearbox	A23104
21	2	M8 x 100 Bolt	8307H
22	1	M6x16 Bolt	8208H
23	1	Steel Expansion Plug - Cup 30mm	A2342-09

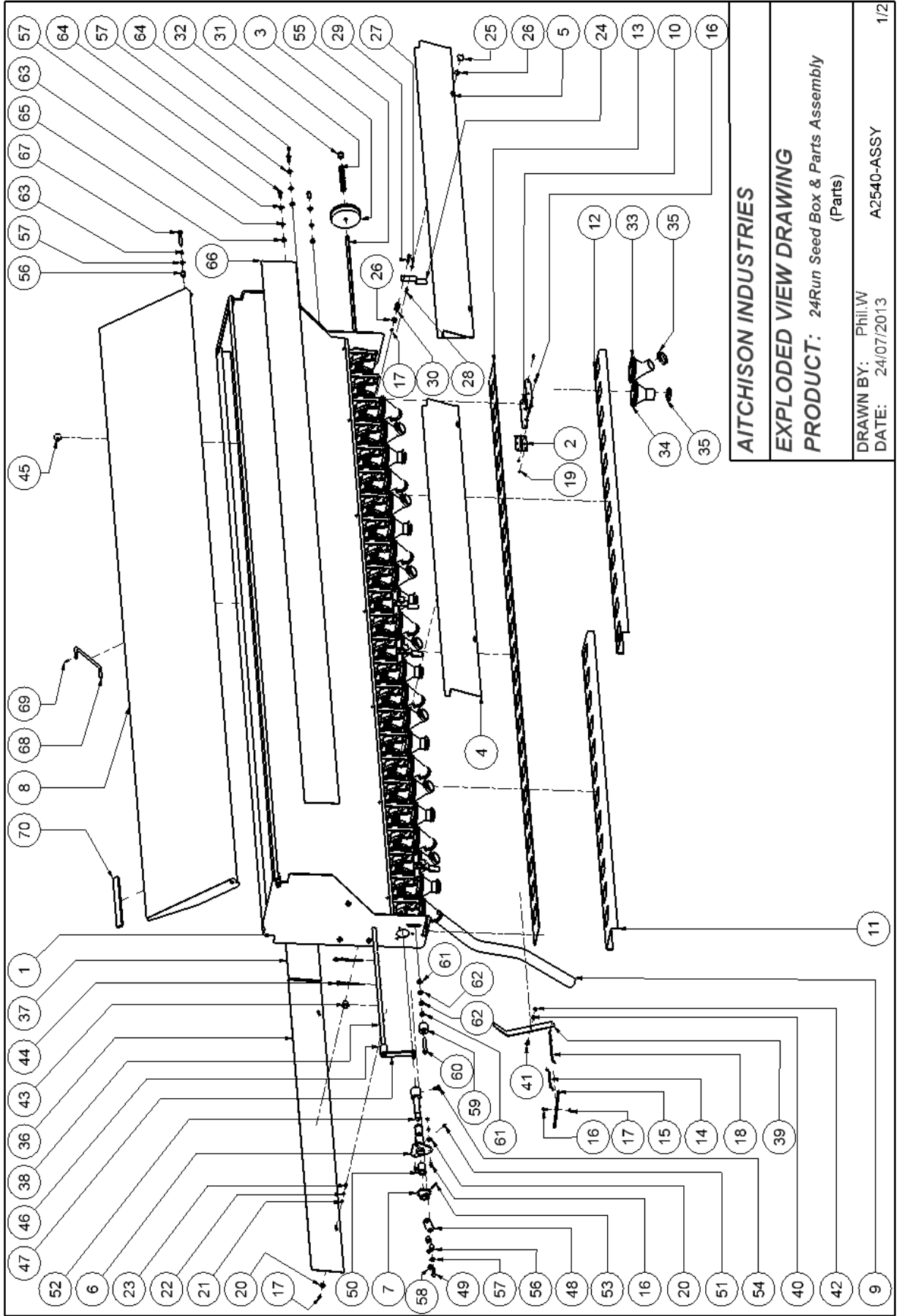
AITCHISON INDUSTRIES

EXPLODED VIEW DRAWING

PRODUCT: Seedmatic Gearbox Parts

DRAWN BY: Phil.W
DATE: 10/08/2011

A2342



AITCHISON INDUSTRIES

EXPLODED VIEW DRAWING

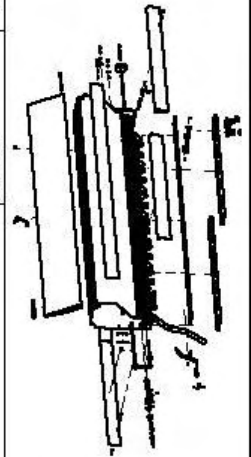
PRODUCT: 24Run Seed Box & Parts Assembly
(Parts)

DRAWN BY: Phil.W
DATE: 24/07/2013

A2540-ASSY

1/2

ITEM	QTY	DESCRIPTION	PART NUMBER	ITEM	QTY	DESCRIPTION	PART NUMBER
1	1	24Run Seed Box Assembly	A2541	36	1	24Run Seed D-S Rear Inspection Panel	A2540-08
2	4	3" x 2" S/S Butt Hinge	A23805	37	1	24Run Seed Non-D-S Rear Inspection Panel	A2540-09
3	24	Sponge Pad & Disc	A2364	38	1	4000 24Run Agitator Shaft	A2540-10
4	1	24Run Front D-S Calibration Panel Assembly	A2542	39	1	4000 End Panel Rodent Handle	A2540-11
5	1	24Run Front Non-D-S Calibration Panel Assembly	A2543	40	1	8mm Flat Washer	9031
6	1	Seed Shaft Mount	A2337	41	1	M8 x 20 Bolt	8311H
7	1	13T Sprocket 1/2" Agitator Boss	A28025	42	1	M8 Nyloc Nut	9105
8	1	4000 Series Seed Lid Assembly (24Run)	A2544	43	6	S 210M Flanged Bush	A2357
9	1	35mm Seed Dropper Hose / Meter	A2384-01	44	24	Agitator Shaft R Clip	A2359
10	4	4000 Series Blank Off Plate Retainer	A2540-01	45	1	16mm Locking Collar	A2360
11	1	4000 Series D-End Seed Tray (24Run)	A2540-02	46	1	Agitator Boss	A28034-02
12	1	4000 Series Non-D-End Seed Tray (24Run)	A2540-03	47	1	4000 Adjatator Shaft Arm	A2540-12
13	1	4000 Series Rodent Stop Slide (24Run)	A2540-04	48	1	Agitator Arm Link	A28008
14	1	4000 Series Rodent Stop Link Wire	A2540-05	49	2	Agitator Link Bolt	A2618-04
15	1	4000 Series Rodent Stop Link Arm	A2540-06	50	2	S 15 Flanged Bush	A2352
16	16	M6x20 Bolt	8205H	51	1	M6 Grease Nipple Straight	9323
17	9	M6 Nyloc Nut	9109	52	1	Seed Shaft Axle	A2361
18	1	4000 Series Rodent Stop Lever Wire	A2540-07	55	1	4000 24Run Seed Shaft	A2540-13
19	16	6-8 S/S Rivet	9302	56	4	S 206M Flanged Bush	A2355
20	7	6mm Fender Washer	9022	57	10	10 mm Flat Washer	9042
21	19	M6 Nut	9121	58	1	M10 Nyloc Nut	9142
22	19	6mm Spring Washer	9021	59	1	Nylon Tensioner Roller	A2336-04
23	4	M6 x 25 Bolt	8213H	60	1	M12 x 65 Bolt	8507H
24	4	Seed Tray Clip	A3040-07	61	2	M12 Nut	9152
25	4	M6 Cross Knob	9122	62	2	12mm Flat Washer	9051
26	8	6mm S/S Fender Washer	9022S	63	8	10mm Spring Washer	9041
27	4	M6 S/S Nut	9121S	64	6	M10 x 25 Bolt	8418H
28	4	M6 x 20 S/S Bolt	8205S	65	6	M10 Nut	9141
29	4	M6 x 50 SS Bolt	8210S	66	1	3M Yellow Panel Decal	D1513
30	4	Agrisped Spinner Disc Spring	A4619	67	2	M10 x 65 Bolt	8417H
31	24	Seed Pad Spring	A2280-10	68	1	4000 Series Lid Stay	A2540-15
32	24	S 9 Plastic Bush	A2280-11	69	1	3 x 20 Roll Pin	9267
33	16	Fert Cup Angled	A2290-13	70	3	Buffer Pad	A2375
34	8	Fert Cup Straight	A2290-12	71	1	6 x 40 Roll Pin	9251
35	24	35mm Crey Clip	A2370	72	1	M10 x 20 Bolt	8419H



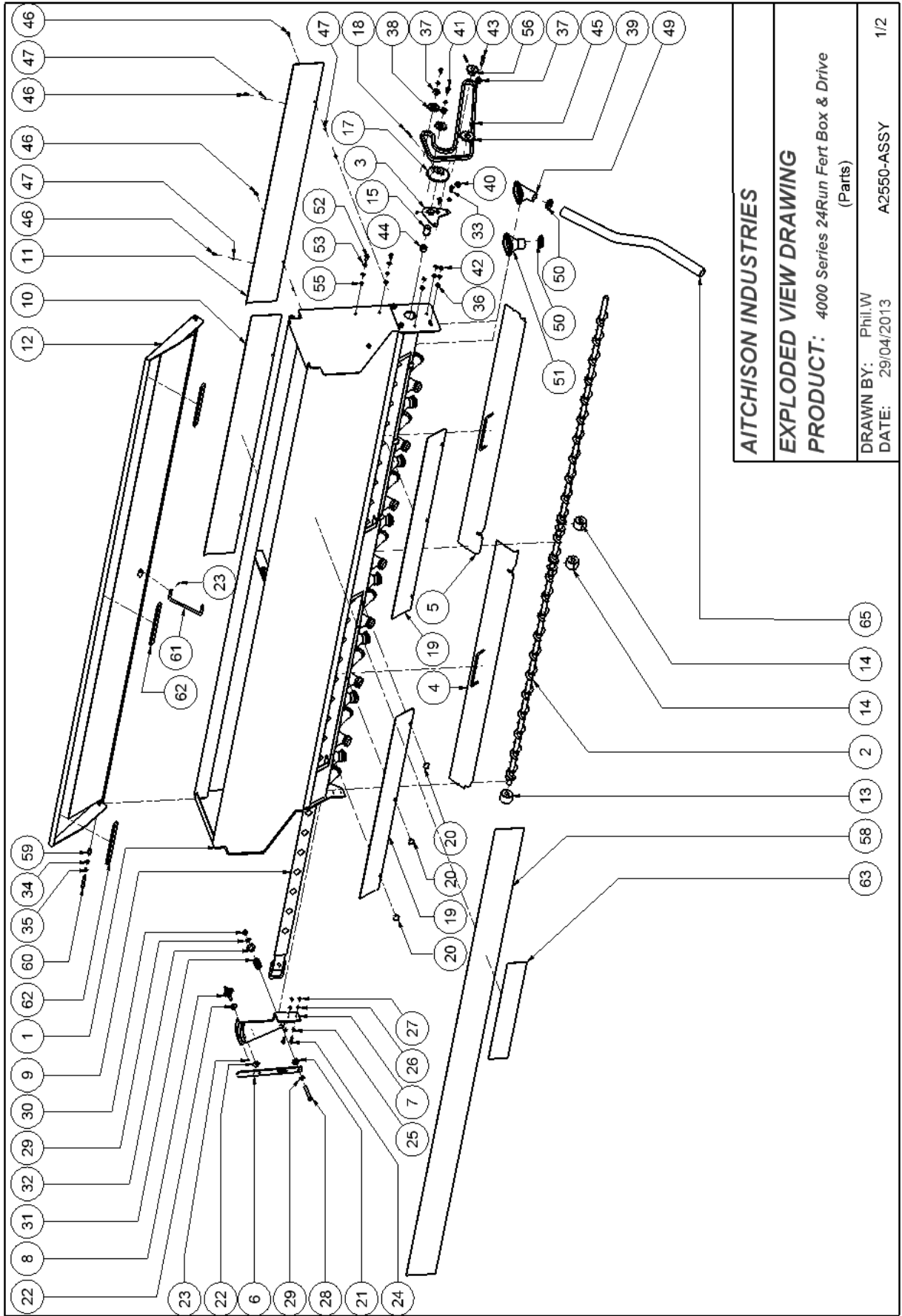
AITCHISON INDUSTRIES

EXPLODED VIEW DRAWING

PRODUCT: 24Run Seed Box & Parts Assembly
(Numbers)

DRAWN BY: Phil.W
DATE: 24/07/2013

A2540-ASSY



AITCHISON INDUSTRIES

EXPLODED VIEW DRAWING

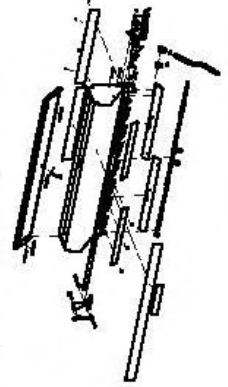
PRODUCT: 4000 Series 24Run Fert Box & Drive
(Parts)

DRAWN BY: Phil W
DATE: 29/04/2013

A2550-ASSY

1/2

Parts List			Parts List				
ITEM	QTY	DESCRIPTION	PART NUMBER	ITEM	QTY	DESCRIPTION	PART NUMBER
1	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
3	1	4000 Fert Auger Drive Mount Assembly	A2555	37	3	6200 Bearing	9219
4	1	4000 24Run LH Fert Baffle Assembly	A2556LH	38	2	13T 1/2" Pitch Idler Sprocket	A2550-05
5	1	4000 24Run RH Fert Baffle Assembly	A2556RH	39	1	17T Plate Sprocket Tensioner	A2350-01
6	1	Fertiliser Control Arm	A23142	40	1	4000 Fert Auger Tensioner Boss	A2550-02
7	1	Fertiliser Control	A23143	42	1	10mm HD Flat Washer	9040
8	1	M10 Fert Adjuster Handle	A23145	43	1	M10 x 45 Bolt	8404H
9	1	4000 24Run Fert Slide Assembly	A2558	44	1	7/8" Shaft Collar (22mm)	A23148
10	1	4000 24Run LH Fert Slide Cover Assembly	A2560LH	45	1	4000 Fert Box Drive Chain	A2550-04
11	1	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	1	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	1	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	1	27T Sprocket Half Inch Pitch 7/8" Bore	A23130	52	6	M10 x 25 S/S Bolt	8418S
18	1	6 x 50 Roll Pin	9262	53	6	10mm S/S Flat Washer	9039S
19	2	4000 24Run Trough Removable Panel	A2550-01	54	6	10mm S/S Spring Washer	9041S
20	6	M6 Cross Knob	9122	55	6	M10 S/S Nut	9141S
21	1	10mm Spacer	A23142-01	56	1	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 x 20 Roll Pin	9267	59	2	S 206M Flanged Bush	A2355
24	2	M8 x 25 Bolt	8305H	60	2	M10 x 65 Bolt	8417H
25	2	8mm Flat Washer	9031	61	1	4000 Series Lid Stay	A2540-15
26	2	8mm Spring Washer	9030	62	3	Buffer Pad	A2375
27	2	M8 Nut	9106	63	1	Decal "SEEDMATIC"	D1510
28	1	M12 x 90 Bolt	8524H	64	1	Decal "4124CT"	D4002
29	2	12mm Flat Washer	9051	65	1	35mm Seed Dropper Hose / Meter	A2384-01
30	1	M12 Nyloc Nut	9151	66	1	1/2" Chain Joiner	ZCH1/2J
31	1	Fert Leaver Spring	A23146	67	1	1/2" Chain Half Link	ZCH1/2L
32	1	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				

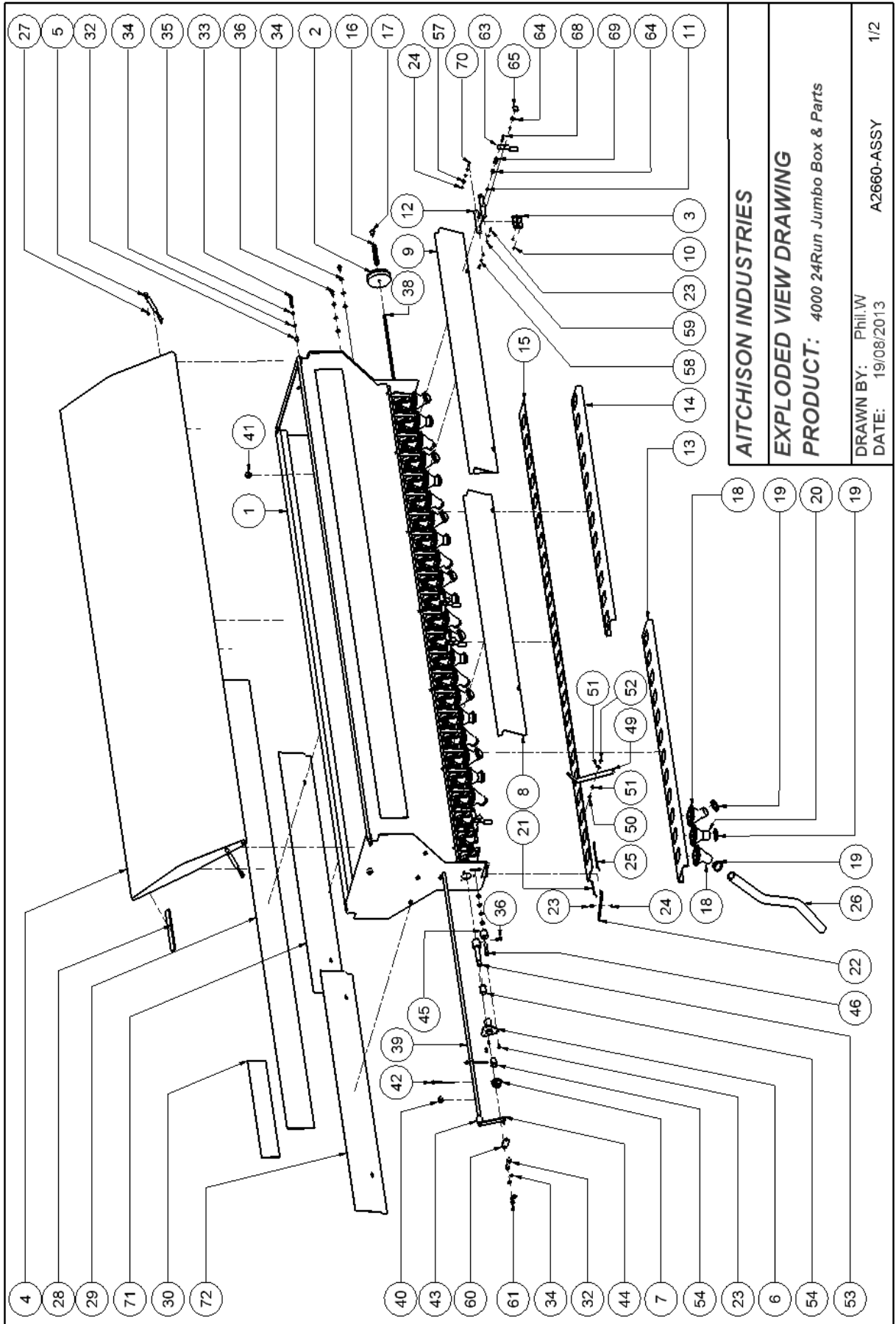


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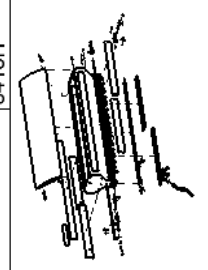
EXPLODED VIEW DRAWING

PRODUCT: 4000 Series 24Run Fert Box & Drive
(Numbers)

DRAWN BY: Phil.W
DATE: 29/04/2013
A2550-ASSY
ISSUE B 2/2

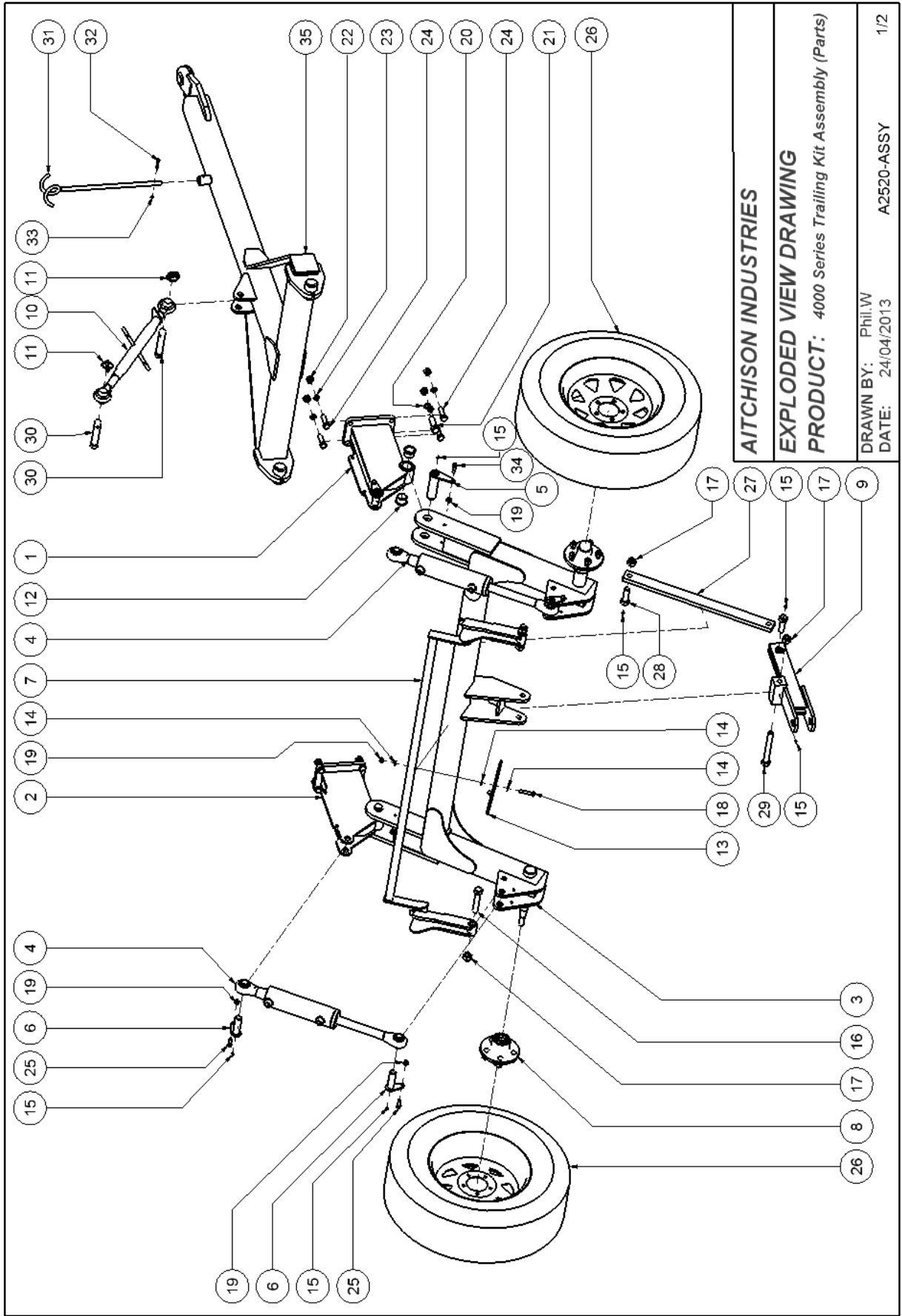


ITEM	QTY	DESCRIPTION	PART NUMBER	ITEM	QTY	DESCRIPTION	PART NUMBER
1	1	24Run Jumbo Box Assembly (4000)	A2661	37	8	M10 Nut	9141
2	24	Sponge Pad & Disc	A2364	38	1	4000 24Run Seed Shaft	A2540-13
3	4	3" x 2" S/S Butt Hinge	A23805	39	1	4000 24Run Agitator Shaft	A2540-10
4	1	4000 Series Jumbo Lid Assembly (24Run)	A2664	40	6	S 210M Flanged Bush	A2357
5	2	Ezy Lift Gas Stay	A3041-02	41	1	16mm Locking Collar	A2360
6	1	Seed Shaft Mount	A2337	42	24	Agitator Shaft R Clip	A2359
7	1	13T Sprocket 1/2" Agitator Boss	A28025	43	1	Agitator Boss	A28034-02
8	1	24Run Front D-S Calibration Panel Assembly	A2542	44	1	4000 Adjtator Shaft Arm	A2540-12
9	1	24Run Front Non-D-S Calibration Panel Assembly	A2543	45	1	Nylon Tensioner Roller	A2336-04
10	8	6-8 S/S Rivet	9302	46	1	M12 x 65 Bolt	8507H
11	2	M6 S/S Nyloc Nut	9109S	47	2	M12 Nut	9152
12	4	4000 Series Blank Off Plate Retainer	A2540-01	48	2	12mm Flat Washer	9051
13	1	4000 Series D-End Seed Tray (24Run)	A2540-02	49	1	4000 End Panel Rodent Handle	A2540-11
14	1	4000 Series Non-D-End Seed Tray (24Run)	A2540-03	50	1	M8 x 20 Bolt	8311H
15	1	4000 Series Rodent Stop Slide (24Run)	A2540-04	51	2	8mm Flat Washer	9031
16	24	Spring - Moore Sponge Pad	A2280-10	52	1	M8 Nyloc Nut	9105
17	24	S 9 Plastic Bush	A2280-11	53	1	Seed Shaft Axle	A2361
18	16	Fert Cup Angled	A2290-13	54	2	S 15 Flanged Bush	A2352
19	24	35mm Grey Clip	A2370	55	1	6 x 40 Roll Pin	9251
20	8	Fert Cup Straight	A2290-12	56	1	M6 Stright Grease Nipple	9323
21	1	4000 Series Rodent Stop Link Wire	A2540-05	57	7	6mm Fender Washer	9022
22	1	4000 Series Rodent Stop Link Arm	A2540-06	58	19	6mm Spring Washer	9021
23	16	M6x20 Bolt	8205H	59	19	M6 Nut	9121
24	5	M6 Nyloc Nut	9109	60	1	Agitator Arm Link	A28008
25	1	4000 Series Rodent Stop Lever Wire	A2540-07	61	2	Agitator Link Bolt	A2618-04
26	1	35mm Seed Dropper Hose / Meter	A2384-01	62	1	M10 Nyloc Nut	9142
27	2	M8 Half Nut	9103	63	4	Seed Tray Clip	A3040-07
28	3	Buffer Pad	A2375	64	8	6mm S/S Fender Washer	9022S
29	2	3M Yellow Panel Decal	D1513	65	4	M6 Cross Knob	9122
30	1	Decal "SEEDMATIC"	D1510	66	4	M6 S/S Nut	9121S
31	1	Decal "4024J"	D4003	67	4	M6 x 20 S/S Bolt	8205S
32	4	S 206M Flanged Bush	A2355	68	4	M6 x 50 SS Bolt	8210S
33	2	M10 x 65 Bolt	8417H	69	4	Agrisprted Spinner Disc Spring	A4619
34	12	10 mm Flat Washer	9042	70	4	M6 x 25 Bolt	8213H
35	10	10mm Spring Washer	9041	71	1	24Run Jumbo Rear Non D-S Inspection Panel	A2660-01
36	9	M10 x 25 Bolt	8418H	72	1	24Run Jumbo Rear D-S Inspection Panel	A2660-02



AITCHISON INDUSTRIES
EXPLODED VIEW DRAWING
PRODUCT: 4000 24Run Jumbo Box Part Numbers

DRAWN BY: Phil.W
DATE: 19/08/2013
A2660-ASSY
2/2



AITCHISON INDUSTRIES

EXPLODED VIEW DRAWING

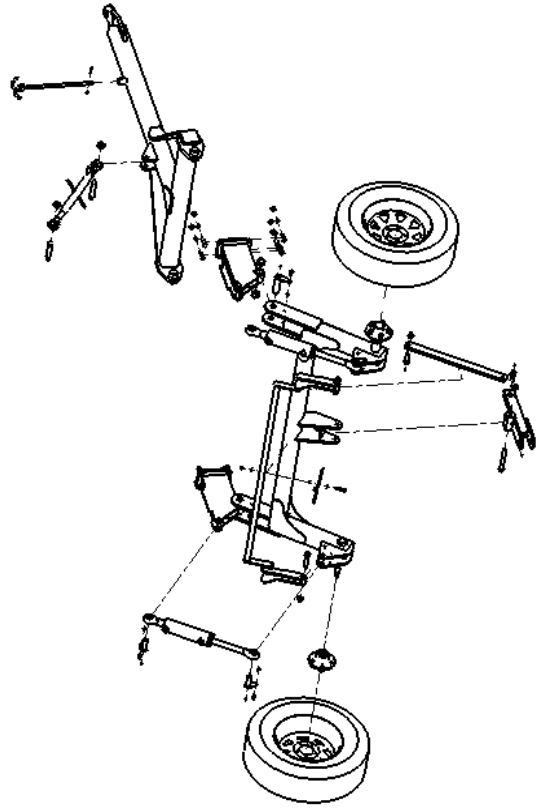
PRODUCT: 4000 Series Trailing Kit Assembly (Parts)

DRAWN BY: Phil.W
DATE: 24/04/2013

A2520-ASSY

1/2

Parts List			Parts List				
ITEM	QTY	DESCRIPTION	PART NUMBER	ITEM	QTY	DESCRIPTION	PART NUMBER
1	1	Rear Axle Pivot Mount RH Assembly	A2521RH	19	7	M10 Nyloc Nut	9142
2	1	Rear Axle Pivot Mount LH Assembly	A2521LH	20	2	20mm Spring Washer	9076
3	1	Rear Transport Axle Assembly	A2523	21	2	M20 x 60 Bolt	8712H
4	2	2.5" x 1.25" x 7" Compact Top Link Ram	A2520-03	22	8	M16 Nut	9161
5	2	Rear Axle Pivot Pin Assembly	A2524	23	8	16mm Spring Washer	9061
6	4	Rear Axle Ram Pin Assembly	A2525	24	8	M16 x 55 Bolt	8603H
7	1	Rear Axle Lock Assembly	A2526	25	4	M10 x 30 Bolt	8415H
8	2	Trojan 5 Stud Hub	TR 082030	26	2	235 -70/R15 Wheel Assembly	A3127-01
9	1	Rear Tow Hitch Tounge Assembly	A2527	27	1	Rear Axle Tow Eye Link	A2520-02
10	1	Cat 2 Turnbuckle	A23189-01	28	2	Rear Axle Towbar Link Bolt	A5185-05
11	2	11mm Lynch Pin	9288	29	1	M20 x 150 Bolt	8702
12	4	FMB 3526DU	A3710-53	30	2	Top Link Pin B76	A23189-02
13	1	Rear Axle Lock Lever	A2520-01	31	1	Hydrolic Hose Pig Tail Pole	A23188-14
14	3	10 mm Flat Washer	9042	32	1	M6 x 45 Bolt	8203H
15	9	M6 Grease Nipple Straight	9323	33	1	M6 Nyloc Nut	9109
16	2	M20 x 100 Bolt	8709H	34	2	M10 x 35 Bolt	8402H
17	5	M20 Nyloc Nut	9122	35	1	4000 Drawbar Assembly	A2528
18	1	M10 x 55 Bolt	8427H	37	1	Trailing Hydraulic Hose Kit	A3127-02



AITCHISON INDUSTRIES

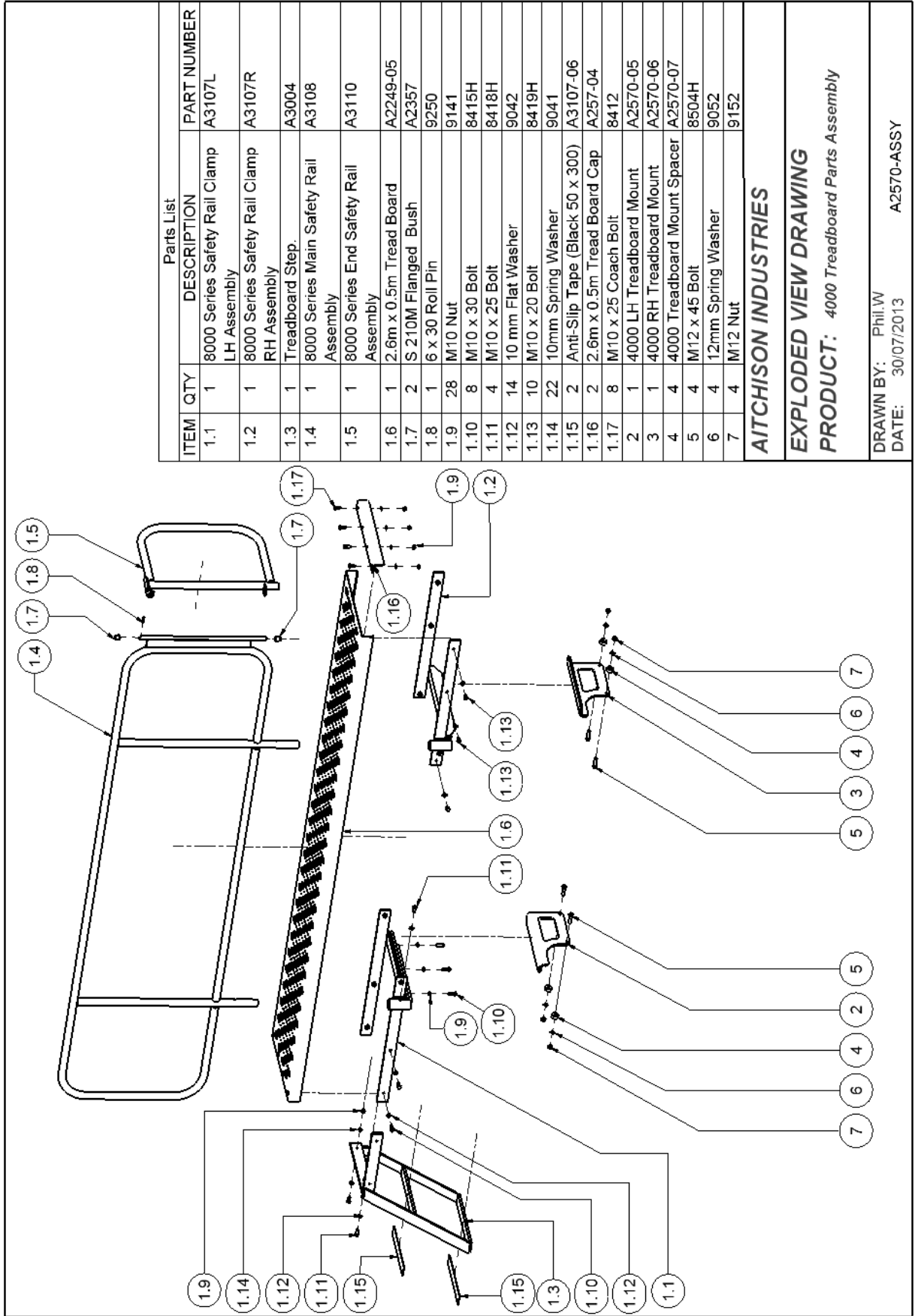
EXPLODED VIEW DRAWING

PRODUCT: 4000 Series Trailing Kit (Part Numbers)

DRAWN BY: Phil.W
DATE: 24/04/2013

A2520-ASSY

2/2



Parts List			
ITEM	QTY	DESCRIPTION	PART NUMBER
1.1	1	8000 Series Safety Rail Clamp LH Assembly	A3107L
1.2	1	8000 Series Safety Rail Clamp RH Assembly	A3107R
1.3	1	Treadboard Step.	A3004
1.4	1	8000 Series Main Safety Rail Assembly	A3108
1.5	1	8000 Series End Safety Rail Assembly	A3110
1.6	1	2.6m x 0.5m Tread Board	A2249-05
1.7	2	S 210M Flanged Bush	A2357
1.8	1	6 x 30 Roll Pin	9250
1.9	28	M10 Nut	9141
1.10	8	M10 x 30 Bolt	8415H
1.11	4	M10 x 25 Bolt	8418H
1.12	14	10 mm Flat Washer	9042
1.13	10	M10 x 20 Bolt	8419H
1.14	22	10mm Spring Washer	9041
1.15	2	Anti-Slip Tape (Black 50 x 300)	A3107-06
1.16	2	2.6m x 0.5m Tread Board Cap	A257-04
1.17	8	M10 x 25 Coach Bolt	8412
2	1	4000 LH Treadboard Mount	A2570-05
3	1	4000 RH Treadboard Mount	A2570-06
4	4	4000 Treadboard Mount Spacer	A2570-07
5	4	M12 x 45 Bolt	8504H
6	4	12mm Spring Washer	9052
7	4	M12 Nut	9152

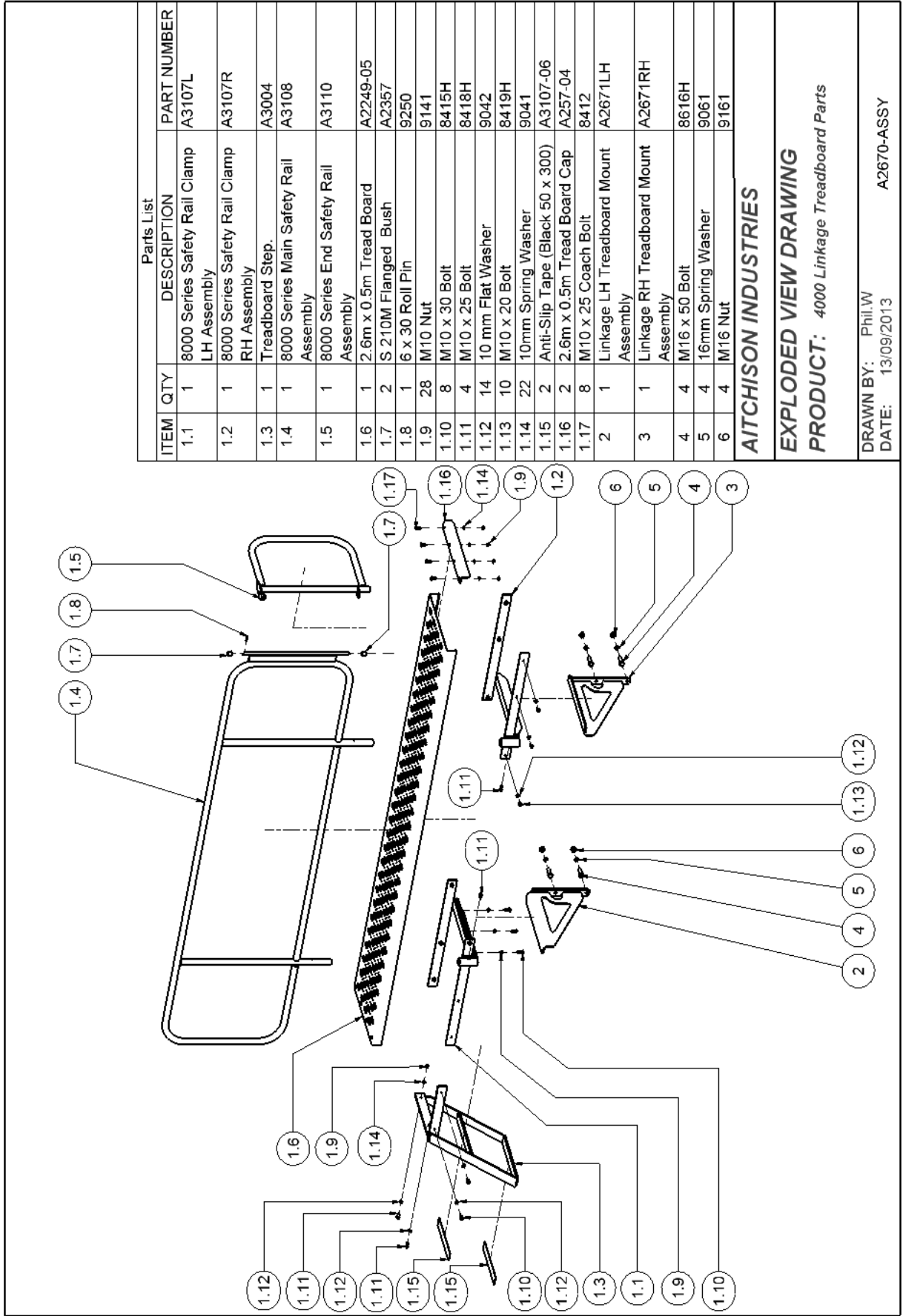
AITCHISON INDUSTRIES

EXPLODED VIEW DRAWING

PRODUCT: 4000 Treadboard Parts Assembly

DRAWN BY: Phil.W
DATE: 30/07/2013

A2570-ASSY



Parts List			
ITEM	QTY	DESCRIPTION	PART NUMBER
1.1	1	8000 Series Safety Rail Clamp LH Assembly	A3107L
1.2	1	8000 Series Safety Rail Clamp RH Assembly	A3107R
1.3	1	Treadboard Step	A3004
1.4	1	8000 Series Main Safety Rail Assembly	A3108
1.5	1	8000 Series End Safety Rail Assembly	A3110
1.6	1	2.6m x 0.5m Tread Board	A2249-05
1.7	2	S 210M Flanged Bush	A2357
1.8	1	6 x 30 Roll Pin	9250
1.9	28	M10 Nut	9141
1.10	8	M10 x 30 Bolt	8415H
1.11	4	M10 x 25 Bolt	8418H
1.12	14	10 mm Flat Washer	9042
1.13	10	M10 x 20 Bolt	8419H
1.14	22	10mm Spring Washer	9041
1.15	2	Anti-Slip Tape (Black 50 x 300)	A3107-06
1.16	2	2.6m x 0.5m Tread Board Cap	A257-04
1.17	8	M10 x 25 Coach Bolt	8412
2	1	Linkage LH Treadboard Mount Assembly	A2671LH
3	1	Linkage RH Treadboard Mount Assembly	A2671RH
4	4	M16 x 50 Bolt	8616H
5	4	16mm Spring Washer	9061
6	4	M16 Nut	9161

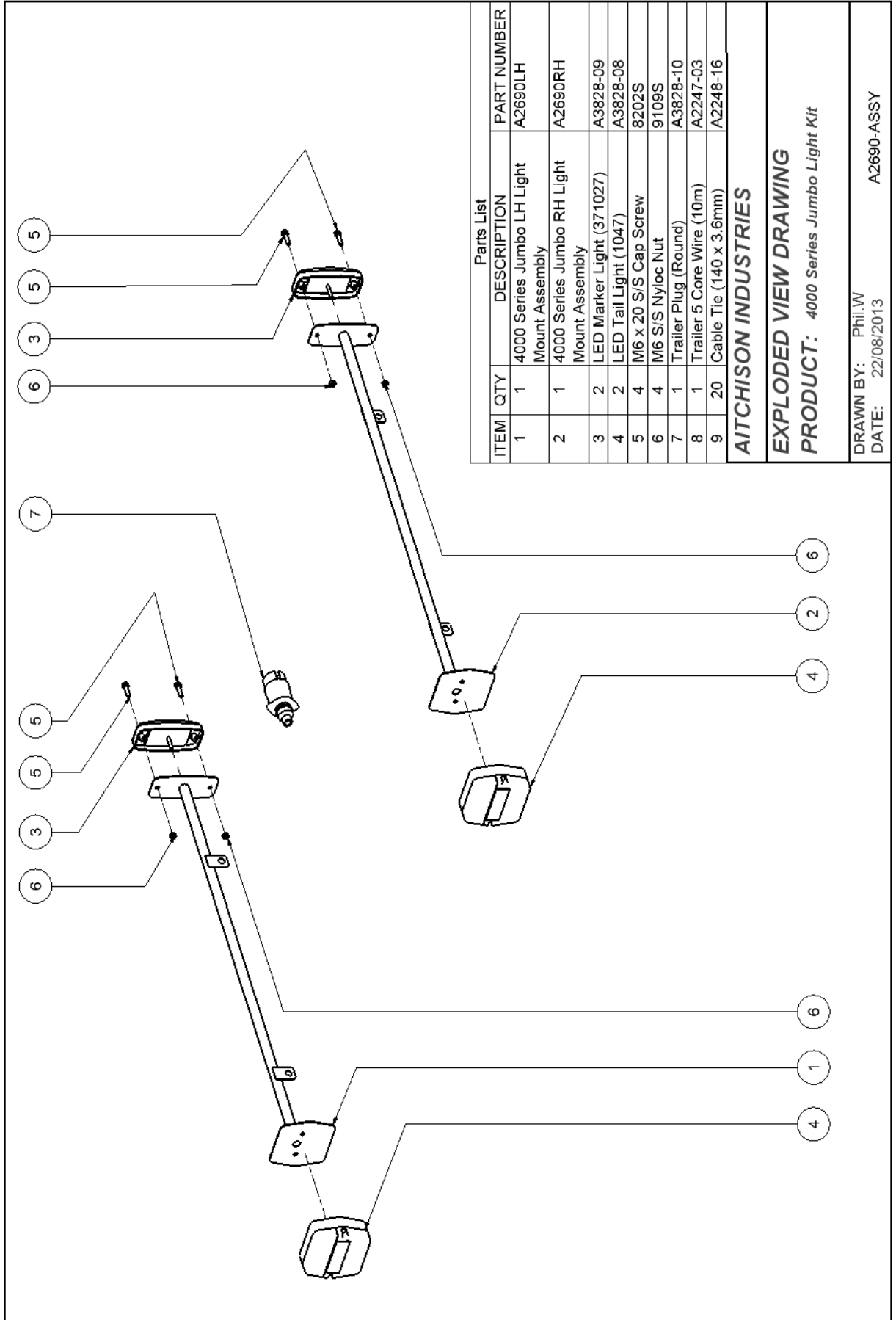
AITCHISON INDUSTRIES

EXPLODED VIEW DRAWING

PRODUCT: 4000 Linkage Treadboard Parts

DRAWN BY: Phil.W
DATE: 13/09/2013

A2670-ASSY



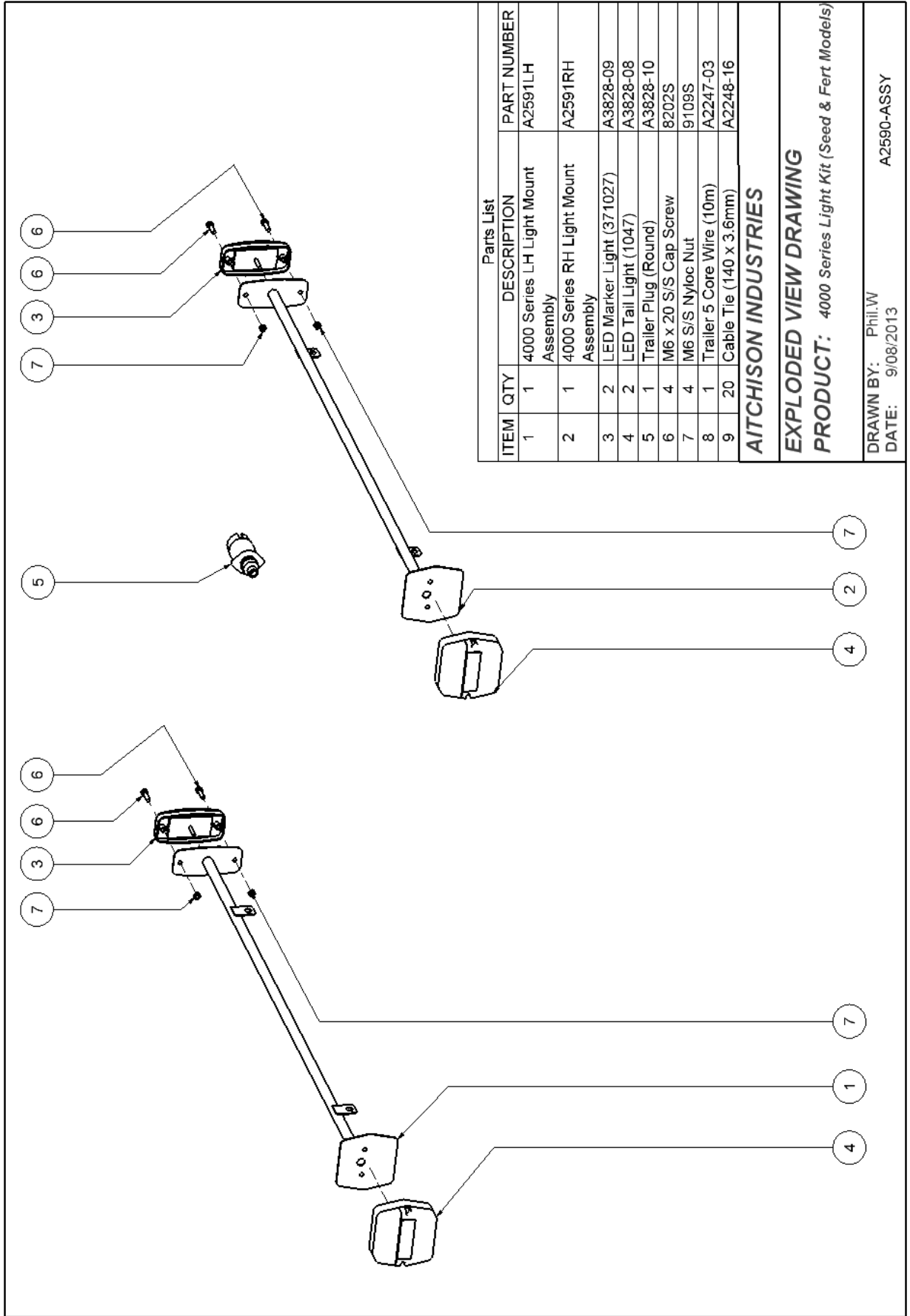
Parts List		ITEM	QTY	DESCRIPTION	PART NUMBER
1	1	4000 Series Jumbo LH Light	A2690LH		
		Mount Assembly			
2	1	4000 Series Jumbo RH Light	A2690RH		
		Mount Assembly			
3	2	LED Marker Light (371027)	A3828-09		
4	2	LED Tail Light (1047)	A3828-08		
5	4	M6 x 20 S/S Cap Screw	8202S		
6	4	M6 S/S Nyloc Nut	9109S		
7	1	Trailer Plug (Round)	A3828-10		
8	1	Trailer 5 Core Wire (10m)	A2247-03		
9	20	Cable Tie (140 x 3.6mm)	A2248-16		

AITCHISON INDUSTRIES

EXPLODED VIEW DRAWING

PRODUCT: 4000 Series Jumbo Light Kit

DRAWN BY: Phil.W
 DATE: 22/08/2013
 A2690-ASSY



Parts List			
ITEM	QTY	DESCRIPTION	PART NUMBER
1	1	4000 Series LH Light Mount Assembly	A2591LH
2	1	4000 Series RH Light Mount Assembly	A2591RH
3	2	LED Marker Light (371027)	A3828-09
4	2	LED Tail Light (1047)	A3828-08
5	1	Trailer Plug (Round)	A3828-10
6	4	M6 x 20 S/S Cap Screw	8202S
7	4	M6 S/S Nyloc Nut	9109S
8	1	Trailer 5 Core Wire (10m)	A2247-03
9	20	Cable Tie (140 x 3.6mm)	A2248-16

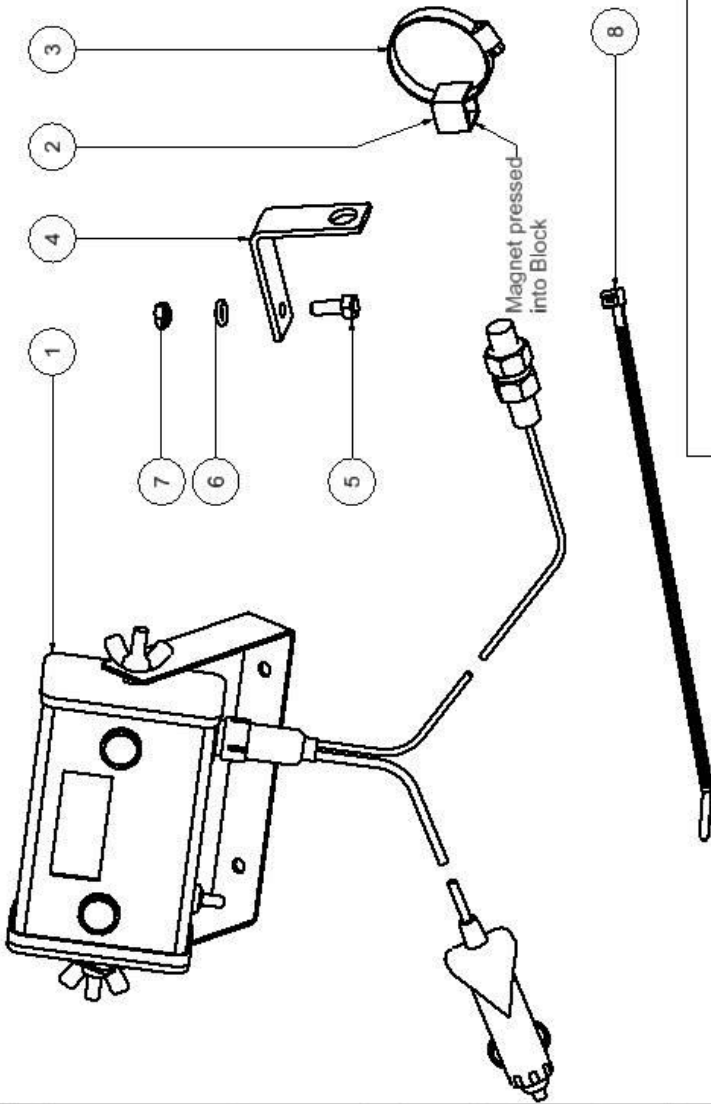
AITCHISON INDUSTRIES

EXPLODED VIEW DRAWING

PRODUCT: 4000 Series Light Kit (Seed & Fert Models)

DRAWN BY: Phil.W
DATE: 9/08/2013

A2590-ASSY



ITEM		QTY		DESCRIPTION		PART NUMBER	
1	1	Aitchison	Areameter Monitor	A2389			
2	1	Magnet	Mounting Block	A2389-01			
3	1	Hose Clip	11 to 25mm S/S	9335			
4	1	Sensor	Mounting Bracket	A2389-02			
5	1	M6 x 25	Bolt	8213H			
6	1	6mm	Spring Washer	9021			
7	1	M6	Nut	9121			
8	10	140 x 3.6	Cable Tie	A2248-16			

ITEM	QTY	PART NAME	MATERIAL	PART NUMBER
AITCHISON INDUSTRIES				
TOLERANCE UNLESS OTHERWISE STATED				
NOMINAL DIMENSIONS, MM	± 0.5	± 0.2	± 0.5	± 1.0
TOLERANCE	± 0.1	± 0.2	± 0.5	± 1.0
				± 2.0
				± 3.0

MODIFICATIONS
SIGNATURE & DATE

DO NOT SCALE

DATE: 1/30/2008
DRAWN: Phil.W
SCALE: APPROVED

ALL DIMENSIONS IN MM

Aitchison Hectaremeter Kit Parts

DRAWING NO. A2389A