SEEDKING Professional SK2122

NO-TILL DRILL

REESE ENGINEERING LTD
41 KELVIN GROVE ROAD – PO BOX 5056

DALMEDSTON NORTH, NEW ZEALAND





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; ensure 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 Rob Baan

Directors Reese Agri

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TECHNICAL SPECIFICATIONS

SEEDKING	
Professional	SK2122
Overall Width – Transport	3.1m
Overall Length	5.6m
Sowing Width	3.0m
Working Speed	6-15 km/h
Tractor HP (min)	120
Weight Empty	4250kg
Seed Hopper Capacity	450lts
Fertiliser Hopper Capacity	450lts
No. Disc	22
Row Spacing	136mm

Optional Extras: Small Seeds Box / Granule Box #A3770

> Chain Harrow #A3750

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:

WARRANTY

The warranty card on your Seedmatic Professional 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.

Indemnity from liability is a complex subject. Our indemnity makes it clear that we are not liable for any claim lodged for breakdown, delays or machine down time, crop failure or any other contingency involving the use of our equipment. In all these circumstances the user can take precautionary measures to ensure that none of theses problems occur – like having on-hand spare parts at the local dealer. Crop failures can be caused by countless problems – our job is to mechanically place seed in the soil and any mechanical malfunction preventing this happening can be checked during the seeding operation and rectified by the operator.

ORDERING PARTS AND ACCESSORIES

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

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 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 drill are in operation. Keep riders off the seed drill. 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 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

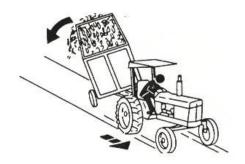
Do not exceed transport speed for machine; see your local Aitchison dealer. Never transport at any speed which does not permit adequate control of steering and stopping.

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 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 buildup 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.

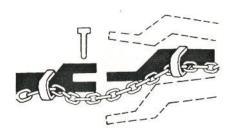
Do not pour waste onto the ground, down a drain, or into any water source. Use the manufacturer's directions on the correct way to recycle or dispose of waste.



USE A SAFETY CHAIN

A safety chain will help control drawn equipment should it accidentally separate from the drawbar.

Using the appropriate adapter parts, attach the chain to the tractor drawbar support or other specified anchor location. Provide only enough slack in the chain to permit turning.



Make sure that the chains you are using has a strength rating double or greater than the gross weight of the towed machine. Do not use the safety chain for towing.

GENERAL OPERATION IN THE FIELD

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 12 km/h may be maintained.

Always lift the drill out of the ground before turning sharp corners as this will protect the disc 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 disc may 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 chain or bar harrows behind the drill is very beneficial as this will crumble the groove and help to cover the seed.

PASTURELAND FARMING WITH THE AIRPRO SK2122

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. 3. E Establish optimum time for planting.
- 4. Check and control weeks present, before and during crop establishment.
- 5. Check and control insect and slug infestation before and during plant establishment.
- 6. Check and control insect and slug infestation before and during plant establishment.
- 7. Ensure soil conditions are suitable for drilling.
- 8. Inspect the crop regularly after planting.

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

TECHNIQUES AND TIMING FOR PASTURE RENOVATION

There are two basic techniques for pasture renovation, i.e. rejuvenation and renewal. Rejuvenation is the most efficient technique and involves sowing the seeds of new and virile pasture grasses and legumes direct into existing pasture and have them gradually take over the old strain, without causing loss of production due to cultivation. This technique is known as 'stitching 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 P	ASTURELAND	TROPICAL	ARID
	REJUVENATION	RENEWAL	PASTURELAND	PASTURELAND
TIME	Autumn or spring	Autumn	Spring	Before or after monsoonal rain
1.	Graze heavily	Graze heavily	• Mow with flail type mower	
2.		Allow 1 week to recover	Allow 3 days to recover	-
3.				÷
	Seed with Seedmatic	Spray with total spectrum herbicide. Include insecticide	Spray for insects. Can use light herbicide rate to control competition	
4.				
	Spray for insects and watch for witholding period requirements	Seed with Seedmatic	Seed with Seedmatic	Seed with Seedmatic
5.	Graze lightly	Graze lightly	Graze lightly	Graze lightly
. A	n application of a total spectredays.	um herbicide may replace mow	ring if the ground cover is shor	t. Sowing must be done within

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 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 Seedking SK2122.

Watch for slugs. Slugs like the moist groove produced by the disc 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 SEEDKING SK2122

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

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

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

Here are just a few possibilities:

Brassicas, Turnips, Swedes, Legumes – 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.

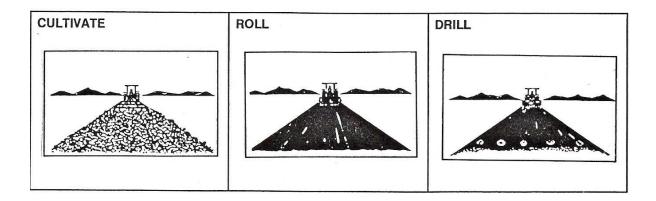
Wheat and Barley – Direct seeding in early spring or autumn depending on variety. Spray out pasture with approved herbicide (may not be necessary after brassica). Always sow with fertiliser.

Lucerne, Alfalfa – Sow in early spring after spraying out entire area with Roundup or Paraquat. 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. Use fertiliser and ensure that spraying 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 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 Seedking, 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.



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DEPTH CONTROL SYSTEM

The Aitchison SEEDKING SK2122 seed drill is fitted with an electronic depth control device that automatically controls the seed drill seeding depth over undulating ground contours. This system can also be over ridden if needed by the flick of a switch.

This system has 5 major components:

- 1. Depth wheel assembly. (Front centre rubber wheel)
- 2. Load cell. (Mounted to "Depth Wheel Assembly")
- 3. Electro hydraulic valve block. (Mounted on drawbar)
- 4. Load cell monitor. (Mounted in tractor cab)
- 5. Drawbar Ram. (Hydraulic Ram on drawbar)

System overview:

When seeding the front centre "Depth Wheel" rolls along the ground, as the ground in front of the seed drill rises or drops away so does the "Depth Wheel".

The depth wheel is fitted with a spring and a load cell.

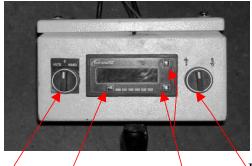
When the depth wheel rides up over a hump or drops down through a dip the load cell measures the different pressures applied to the spring.

The load cell feeds this information to the "Load Cell Monitor", the monitor then tells the "Electro Hydraulic Valve Block" to pump oil to the top or bottom of the "Drawbar Ram", and this raises or lowers the front of the seed drill to match the ground contours.

System requirements:

12 volts power supply inside tractor cab. (Cigarette lighter plug). Continuous hydraulic oil supply, 12 l/m @ 2600psi min. (One hydraulic bank with lever locked on).

LOAD CELL MONITOR



Manual/Auto Switch

Program Button Up/Down Button

Up/Down Switch

SETTING THE SEEDING DEPTH

- 1. Ensure that the "Side Stabiliser Wheels" are folded up clear of ground.
- 2. Ensure that there is power to the "Load Cell Monitor" (switch to "Manual")
- 3. Ensure that there is oil flow to the "Electro Hydraulic Valve Block".
- 4. Ensure that all other systems are connected. (Rear axle hydraulics, Eagle Seedrate controller, etc.)

To check that the depth control system is connected correctly:

Turn the "Up" Switch on the load cell monitor: this should drive the drawbar ram **out.** Turn the "Down" Switch on the load cell monitor: this should drive the drawbar ram **in.**

If all of the above systems are working you can now set the seeding depth on the seed drill.

Place seed in the hopper, drive forward slowly and raise the rear transport wheels fully up. (Clear of ground).

Use the up and down switch on the load cell monitor to lower the front of the drill until the disc openers start cutting into the ground. (manual/auto switch on MANUAL)

Check depth of planted seed in seed slot, if seed is at the required depth, good; if not use the up and down switch to achieve the required depth. (While driving forward with the rear transport wheel clear of ground.)

Once the required seed depth is achieved read the figure shown on the load cell monitor. Eg, 48.

This figure is what the load cell monitor needs to be set at to control the required seeding depth.

Press the "program" button on the load cell monitor, then use the up/down arrow buttons to select the required seed depth figure. Eg, 48 Press the "program" button to save.

The seeding depth has now been set; flick the manual/auto switch to **AUTO**.

NOTE:

As the seed drill hoppers get lighter because of the product being sown; the seeding depth may change.

If the ground conditions change (Hard/Soft) the seeding depth may change.

PROBLEM SHOOTING

If the seed drill starts bouncing up and down; slow the oil flow down until this knee-jerk reaction has stopped.

Drawbar ram moves in opposite direction than needed; swap over the electrical plugs on the "electro hydraulic valve".

Drawbar ram only moves slightly then stops; swap hydraulic hoses around, (pump oil in opposite direction.

Drawbar ram does not move in or out; check there is power to the "Load cell monitor", check there is oil flow to the "electro hydraulic valve", check that the transport lock valve (tap on front hydraulic ram) is on.

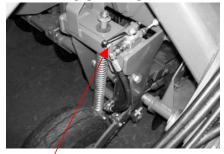
NOTE:

The depth control wheel is plumbed into the Rear Transport Axle hydraulic system.

When the drill is lowered for seeding the Rear Transport Axle must be lifted fully clear of the ground; this will allow the front Depth Control Wheel hydraulic ram to extend fully and allow it to follow the contours of the ground.

The depth control wheel is also fitted with a Ball Valve; this valve MUST be turned <u>ON</u> for this system to work.

DEPTH CONTROL WHEEL



GROUND SPEED SENSOR



Ball Valve **ON**

Ground Speed Magnets Ground Speed Sensor

NOTE:

The Depth Control Wheel is also used for ground speed sensing; this speed sensing is used by the EAGLE Seed Rate Controller to control seeding rates.

Hence this wheel has to make contact with the ground while seeding.

SIDE STABILISER WHEELS

The Aitchison SEEDKING is fitted with two "Stabiliser Wheels"; these wheels are located on the front two corners of the seed drill.

These wheels are designed to stabilise the seed drill on hillsides and help prevent the front corners of the drill ploughing too deep in undulating ground. When these wheels are not required they can be quickly folded up out of the way.

STABILISER WHEEL ADJUSTMENT

After you have set the seeding depth of the seed drill and the stabiliser wheels are required, they can be lowered into place.

With the seed drill engaged (seeding) on a flat piece of ground stop the tractor and lower the stabiliser wheels and pin into place, adjust the wheels with the crank handle provided. (located on End Panel.)

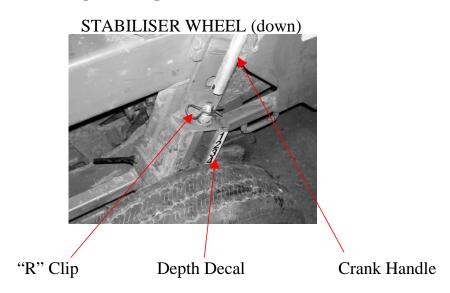
Adjust the wheels down onto the ground so they carry some weight (preload of about 15mm) this will ensure that the each end of the drill is carried at the correct height.

NOTE:

Use the depth gauge decals to ensure that both stabiliser wheels are set to the same height.

Ensure that the "R" clip is fitted through the top of the adjustment thread to prevent the wheels self-adjusting.

Ensure that the stabiliser wheels are locked in the "UP" position when the drill is transported on public roads.

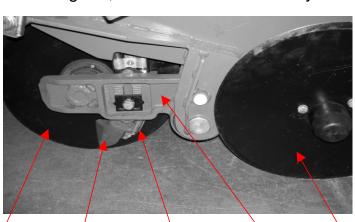


BOOT TO DISC ADJUSTMENT

Every Dragarm has two Disc Coulters; these two Disc Coulters are mounted on one common Pivot Arm.

Each Disc Coulter (RH & LH) has one Disc and one Boot; the Boot is attached to the seed delivery tubes. Behind this Boot is the fertiliser delivery tube.

The Pivot Arm can rock back and forth slightly to follow the contours of the ground.



Dragarm; Disc Pivot Arm Assembly

Front Disc

Boot

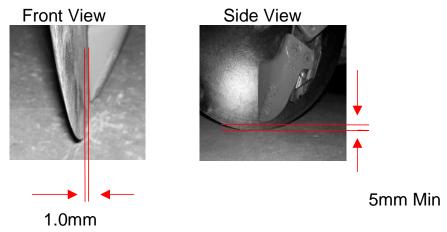
Fertiliser Tube

Pivot Arm

Rear Disc

It is very important that the Boots are adjusted correctly against the Disc to ensure even sowing depth and to prevent trash blockages.

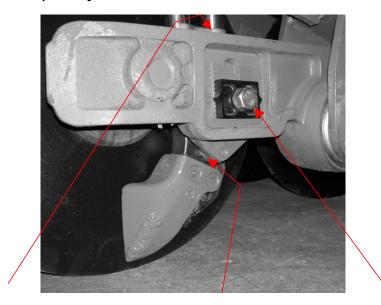
The Boots should be set at lest 5mm up from the bottom edge of the disc and have about 1mm clearance between the face of disc and the inner face of the boot.



NOTE: Never have a bigger gap at the bottom than the top

MAKING ADJUSTMENTS

There are three bolts used to adjust the Boot; One main bolt M16 x 40 (24mm head), which is used to adjust the boot up/down and two M12 x 20 (19mm head) to adjust the boot in/out from the disc.



M12 Bolt M12 Bolt M16 Bolt

To make adjustment to the Boots raise the drill up using the hydraulics. Ensure that the transport locks are **locked**. (Rear lock on Rear Transport Axle, Valve on front Drawbar Ram.)

All three of these adjustments can be made from under the drill. To make an in/out adjustment use the custom made 19mm spanner supplied with the seed drill.



It is important that these two M12 bolts are tight after completing adjustments. (Bolts should be tightened against each other).

To make a up/down adjustment loosen of the M16 bolt enough that enable the complete Boot assembly to move. When the boot is at the correct height retighten the bolt ensuring that the lock washer is located in the notches provided.

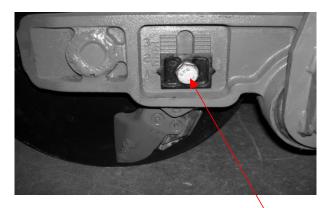
BOOT REPLACEMENT

Over a period of time the Boots will wear down and will need replacing.

The easiest way to go about this is to remove the complete Boot Pivot assembly.

This can be done by pulling off the seed/fertiliser dropper hoses from the top of the coulter tubes.(at disc coulter end).

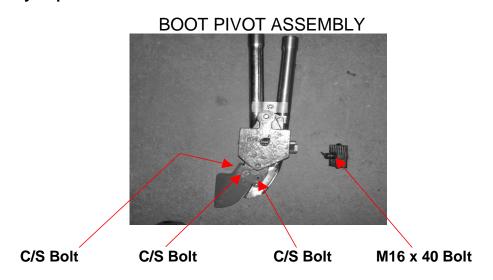
Loosening/removing the M16 x 40 bolt that is used to adjust the height of the boots.



M16 x 40 Bolt

The complete Boot Pivot assembly can now be slipped down from the Dragarms.

The three countersunk (C/S) bolts have been secured by loc-tite and may required heat to break this bond.



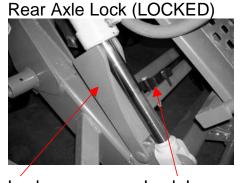
Use a medium strength Loc-tite (271) when replacing the countersunk bolts.

TRANSPORT LOCKS

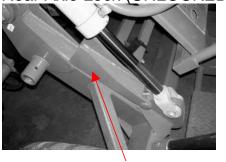
The Aitchison SEEDKING is fitted with two Transport Locks; these locks are important safety device.

Always ensure that these Transport Locks are in place when the seed drill is transported on public roads.

Always ensure that these Transport Locks are in place when maintenance work is carried out.



Rear Axle Lock (UNLOCKED)



Lock

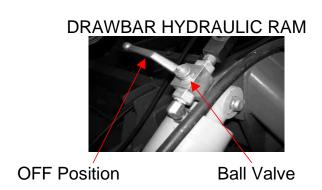
Lock Lock Lever

TO LOCK REAR AXLE

- 1. Fully extend rear hydraulic rams.
- 2. Lift lock up by hand.
- 3. Rotate Lock Lever.

FRONT DRAWBAR RAM LOCK

The front Drawbar Hydraulic Ram is fitted with a Ball Valve (tap). To lock this ram, simply turn the valve to the off position.

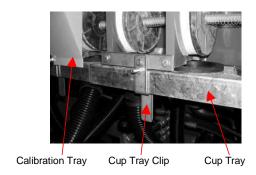


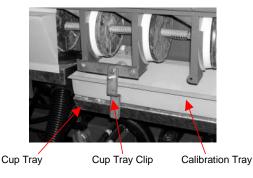
CALIBRATION

The Aitchison SK2122 has Calibration Trays attached; these trays are to be used to catch the products that have been metered from the seed and fertiliser boxes.

SEED BOX CALIBRATION

The seed box has two yellow Calibration Trays (inspection panels) attached to its front, covering the seeder units. These trays can be removed and placed under the seeder units to catch the seed. You can use one of both of these trays.





CALIBRATION TRAY PLACEMENT

- 1. Remove one or both Calibration Trays.
- 2. Pull out Cup Tray Clips (Cup Tray should swing down).
- 3. Insert Calibration Tray on top of Cup Tray.
- 4. Use Cup Tray Clip to hold Calibration Tray in place.
- 5. Push "ENTER" on EAGLE Seeder Console (refer to EAGLE Operators Manual).
- 6. Remove Calibration Tray (with metered seed).
- 7. Pour seed from Calibration Tray (weigh seed).
- 8. NOTE: Always prime system before calibration.

NOTE:

If using only <u>one</u> Calibration Tray you will have to multiply the weight of seed by <u>2</u> to get correct answer before entering it into the EAGLE Console.

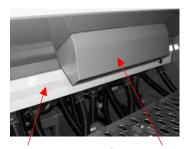
NOTE:

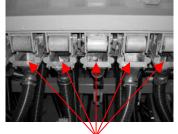
When new (from factory) the Seed Pads are covered in white powder, this powder is to prevent the pads being stuck together during manufacturing.

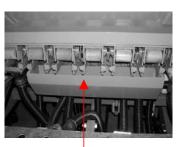
Until this powder has worn away (or been removed) inconsistent calibration will result.

FERTILISER BOX CALIBRATION

The fertiliser box has one green Calibration Tray attached to the rear panel. This calibration tray can be placed under any five fertiliser metering units to catch the metered product.







Inspection Panel

Calibration Tray

Cup Holders

Calibration Tray

CALIBRATION TRAY PLACEMENT

- 1. Remove one Inspection Panel.
- 2. Slide out five Cup Holders.
- 3. Slide in the Calibration Tray.
- 4. Push "ENTER" on EAGLE Seeder Console (refer to Eagle Operators Manual).
- 5. Remove Calibration Tray (with metered fertiliser).
- 6. Pour fertiliser from Calibration Tray (weigh fertiliser).
- 7. NOTE: Always prime system before calibration.

NOTE:

Because fertiliser has only been caught from <u>5</u> outlets you will have to multiply the weight of fertiliser by <u>4.4</u> to get the correct answer before entering it into the EAGLE Console.

EAGLE CONSOLE SETTINGS

Listed below are the key settings that are needed to for the Aitchison SK2122 to operate correctly.

SEEDER SETUP.

BINS SETUP

NO OF BINS: = 2 (seed/fertiliser) or 3 (seed/fertiliser/granule).

BIN 1 BIN 2 BIN 3 450 L 450 L 90 L

EXTERNAL OPTIONS

EXTERNAL ON MASTER TILLAGE

MASTER SWITCH TYPE

WHEEL FACTOR

WHEEL 0.249 = (Sensor on front Depth Wheel)

FACTTOR m/pulse

(If sensor is fitted to Dragarm Press Wheel) = 0.172

WIDTH SPEED AND PRIME DURATION

WIDTH 2.98 meters
MANUAL SPEED 10.0km/h
PRIME TIME 5secs

MOTOR SETUP

USING FOUR ON

PULSE MOTOR

PRODUCTS SETUP

BIN NUMBER 1(Fertiliser Box)

DRIVE RATIO 108.0

BIN NUMBER 2(Seed Box)

DRIVE RATIO 95.0

NOTE: (if sprockets are reversed; i.e. big seeds) DRIVE RATIO = 38.0

BIN NUMBER 3(Granule Box)

DRIVE RATIO 231.0

<u>ALARM SETUP</u>

SHAFT STOPPED 1,2 & 3(if used) ON BIN LOW 1,2 ON BIN EMPTY 1,2 & 3(if used) ON

NOTE:

For all other settings please refer to "EAGLE Operators Manual"

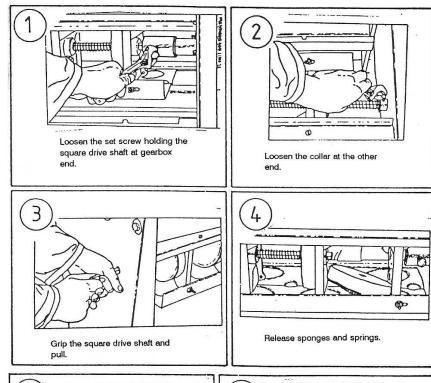
CARE OF THE SPONGE PADS

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. A deterrent such as Diasinit may be run through the pads before storage to discourage the entry of vermin into the drill. Leave the guards removed during storage.

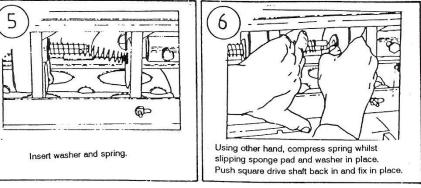
To empty the hopper of seed, push the pads away from the seeder units to let the seed fall through. Do not leave seed lodged between the pad and seeder unit as this will distort the pad giving erratic sowing. The sponge pads are replaced as shown below.

Replacement of Sponge Pads





Inserting:



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.

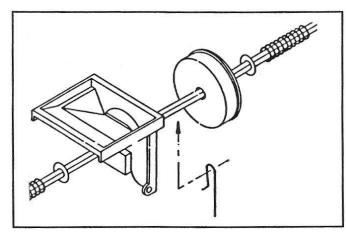
OAT WIPER AND BEAN SPACER

Oat Wiper

The oat wiper is an optional extra that is designed to wipe clean the sponge pad if heavily horned 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 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.

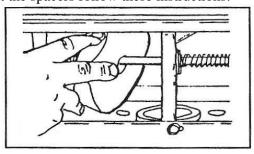


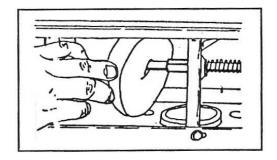
Bean Spacer

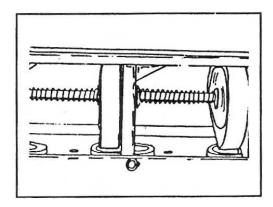
Markedly improved seeding performance is achieved by fitting spacers between the sponge and the seeder casting. This in effect moves the sponge away from the seeder casting and allows for better entry of the seeds into the sponge. A better 'pick up' is attained and seeding consistency is improved.

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) 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.

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.

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

REMOVAL OF SEED FROM HOPPER

There is probably no easier drill to clean than this Aitchison Drill. Remove the front 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. Push pads away to clean out seeds. To remove pads, loosen this set screw and move shaft to the left.

THE FERTILISER SYSTEM

The fertiliser box on the SK2122 drill uses a unique rubber roller metering system. These rubber rollers can deliver rates from 15kg/ha to 300kg/ha.

Each fertiliser unit incorporates a large drive roller running against a smaller idler roller. There is slight pressure on both rollers that provides enough surface movement to prevent fertiliser to build up even with quite sticky fertiliser. Care must be taken not to leave sharp objects in the hopper as damage may occur to the rollers.

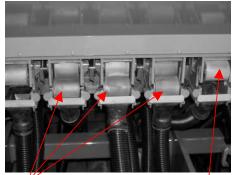
The fertiliser units can also be used to sow some types of seeds as long as the seed are a reasonable size and reasonable rates; e.g. grass seeds or bigger, rates from 15kg/ha and up.

REMOVAL OF FERTILISER FROM HOPPER

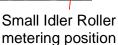
To empty the fertiliser that has not been used up simply press the small idler roller in and down and it will come out. (Do not lose the small idler axle).

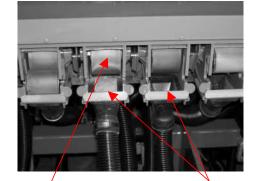
It is important to empty and clean the fertiliser box completely at the end of each season to avoid fertiliser building up and setting hard.

FERTILISER BOX WITH INSPECTION PANEL REMOVED



Small Idler Roller In Dump position





Large Drive Roller

Small Idler Roller removed completely

NOTE:

At the end of each season leave the Small Idler Rollers in the Dump position to prevent flat spots on the rollers.

With the Small Idler Roller in the Dump position fertiliser will spill outwards; with the Small Idler Roller removed fertiliser will spill down the dropper tube.

GENERAL MAINTENANCE

The SK2122 seed drill has been designed with minimal maintenance in mind reducing down time and increasing productivity. However close observation should be kept on all moving parts, this will prevent costly repairs in the long run.

MACHINE GREASE POINTS

Grease Points.	No. of Nipples.	Greasing Regularity.
Rear Axle Main Pivot	2	10 hours
Rear Hydraulic Rams	2	10 hours
Drawbar Main Pivot	2	10 hours
Seed Drive Shaft Axle	1	100 hours
Fertiliser Drive Shaft Axl	le 1	100 hours
Granule Drive Shaft Axle	e 1	100 hours
Stabiliser Wheels	2	100 hours

Keep all adjustment threads corrosion free by periodically coating with copper coating. (Grease tends to attract dust).

Greasing location points are labelled on the drill with "GREASE" decal as shown.

Chains should be kept lubricated with chain oil and should be thoroughly cleaned once a season.



All the Discs and Press Wheels should be checked daily for any sign of play in their bearings and adjusted if needed to prevent costly bearing replacement.

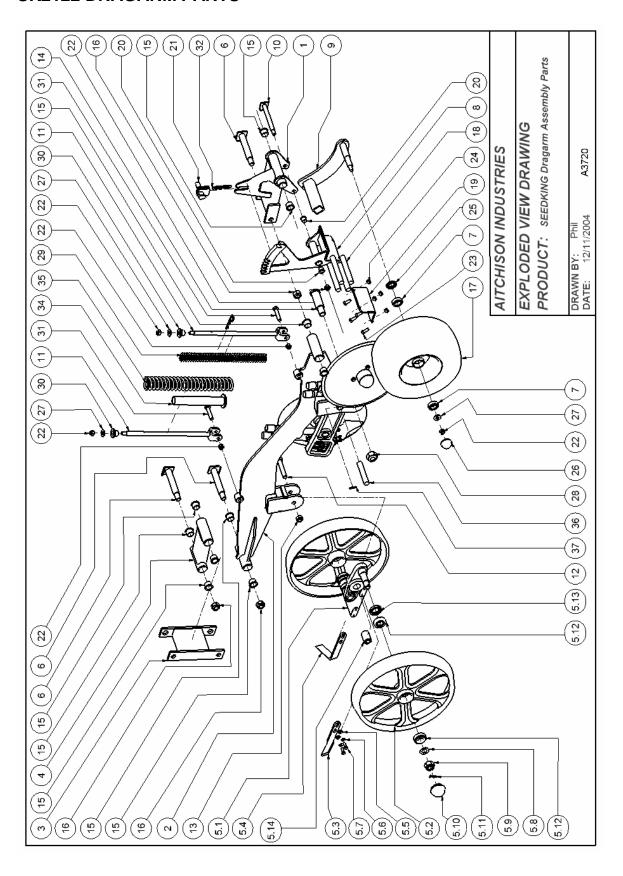
Check that all Dust Caps are in place and replace if damaged of missing.

Check the Press Wheel Pivot Arms for side-ways movement and tighten their pivot bolts when needed.

SK2122 FRAME ASSEMBLY & PARTS

(17) (39) (35) (36) (37) (42) (15) (42) (16)			43) / / / / / / / / / / / / / / / / / / /													<					(10)												STIGHT NOSITOTIV	AT CHISCON INDUSTRIES	EXPLODED VIEW DRAWING	TOTAL SECTION OF THE PROPERTY	TACOCOL: SEEDKING Frame Assembly and Farts		B	DATE: 3/12/2004 A3700	
A3720 A3701	A3700-11	A3700-15	A3700-21	A3700-31	A3715	A3715	A3716	A3700-50	A3702	A3703	A3707	A3706L	A3706R	A3710	70700	8510H	9151	8602H	16A	A3700-52	8419H	9041	9323	A2249-12	A3700-53	9198	8203H	9109	9141	8415H	8416H	9040	9142	A3700-54	A3700-56	8418H	A2250-03	9285	A3700-57	9291	A3707-01
Complete Dragarm Assembly 3m SeedKing Main Frame		Front Dragarm Short End Spacer	Rear Dragarm Spacer Assembly	acer	Assembly							ply	il Assembly		ATT TOO DOWN DIS		Lut	M16 x 40 Bolt	M16 Nyloc Nut	Front Dragarm Spacer	M10 x 20 Bolt	10mm Spring Washer		ush	re Bolt		M6 x 45 Bolt	ut	M10 Nut	M10 x 30 Bolt		Vasher		AAO × 60 × 3m Troad Board			End		ot Bar		Stabiliser Wheel Crank
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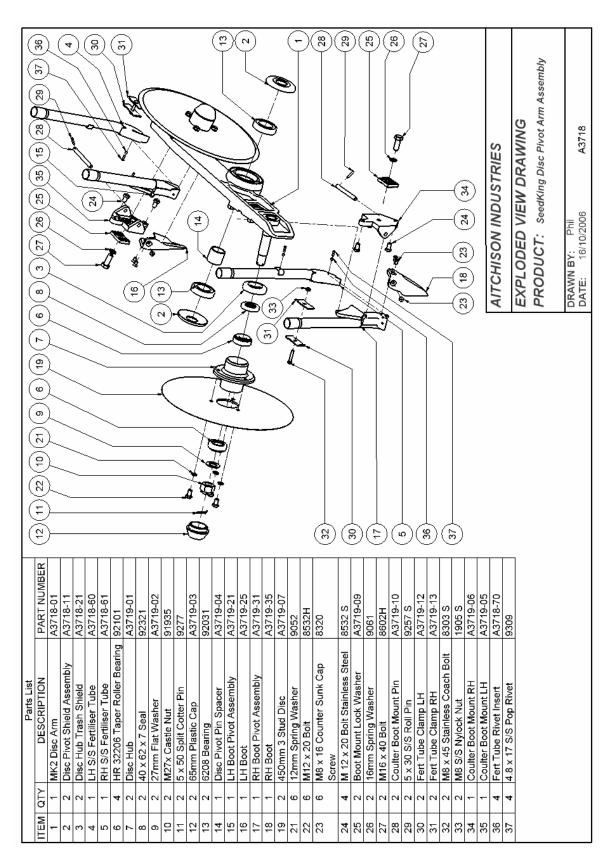
SK2122 DRAGARM PARTS



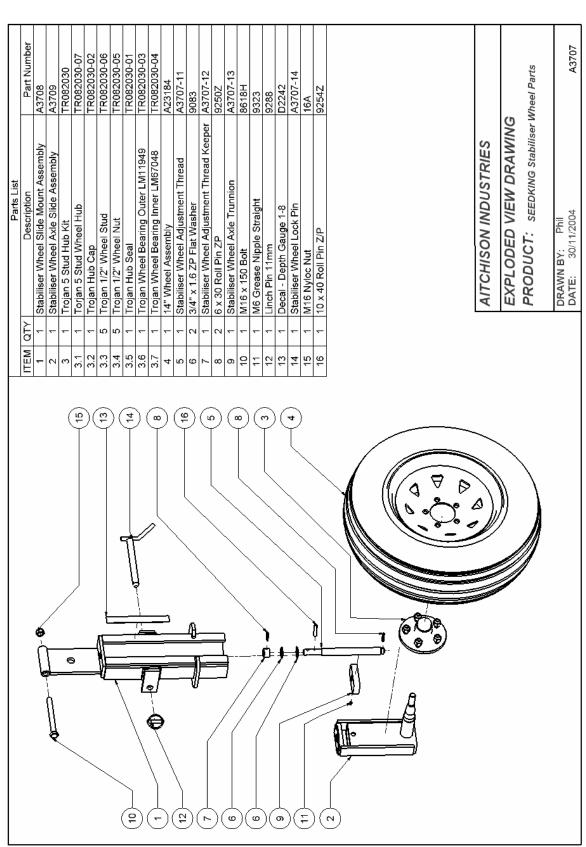
SK2122 DRAGARM PART NUMBERS

1 1 2 3 4 4	ΔIV					Parts List	
- 2 E 4 L		Description	Part Number	ITEM	ΩTY	Description	Part Number
2 8 4 4	1	Front Arm Assembly	A3721	14	-	Disc Pivot Pin	A3720-31
ω 4 ^π	-	Dragarm Assembly	A3722	15	10	FMB 3026DU	A3720-40
4 7	-	Rear Link	A3723	16	m	M24 Nylock Nut	9198
7	-	Rear Divot	A3720-20	17	, -	18 5 x 8 50-8 Wheel	A3729
	-	December 1990	A3734	. 0	-	Docker Whool Duratoral o Dukhor	A2720 22
-	- -	riess writer Alli Assellibly	43/24	2 5		rachel wileel Dulatolque hubbel	73,20-32
5.2	2	Cast Press Wheel Machined	A3720-10	19	_	Packer Wheel Duratorque Plate	A3725-03
5.3	-	Press Wheel Mud Scraper RH	A3720-01	20	2	FMB 2021.5DU	A3710-52
5.4	-	Press Wheel Mud Scraper LH	A3720-02	21	-	Packer Wheel Arm Lock	A3720-33
5.5	4	10mm HD Flat Washer	9040	22	9	M16 Nyloc Nut	16A
20	4	10mm Spring Washer	9041	23	4	M12 × 30 Bolt	8523H
0 14	+ <	Min Spirig Washer	904-	3 6	•	M 12 Nation Nit	01531
		MIN SO DOIL	10140	7,		IVI 12 INVIOLATIVAL	9131
5.8	2	27mm Flat Washer	A3719-02	22	-	30 x 52 x 7 Seal	9235
5.9	2	M27x3 Castle Nut	91935	56	-	52mm Cap	A4623
5.10	2	62mm Plastic Cap	A3719-03	27	က	16mm Thick Flat Washer	3062
5.11	2	5 x 50 Split Cotter Pin	9277	28	-	M30x3.5 Nylock Nut	9199
5.12	4	HR 32206 Taper Roller Bearing	92101	59	-	Dragarm Front Spring	A3720-34
5.13	2	40 x 62 x 7 Seal	92321	30	2	Push Rod Spring Bush	A23211
5.14	-	Bush DRR5495 - Seedking	92102	3,	2	M16 x 75 Bolt	8617H
9		Pivot Pin Assembly	A3720-05	32	-	Gearbox Spring	A23104
	,	6205 Bearing	9212	8	-	MK2 Disc Divot Arm Assembly	A3718
. a	1 -	Packer Wheel Duratorane Pivot	02.12 A3725	34	-	Dragarm Rear Spring Stop Assembly	A3728
		Deller Wheel Arm According	\$3.20				A2720 2E
<i>b</i> 5		Dacket Wileel All I Assembly	A3720 1E	8 8	-	Dragarii Neal Oprilig	A37.20-33
2	- -	Facker wheel Pivot Pin Assembley	A3/20-15	000	-	Dragarm Disc Arm Pivot Rubber	A37.20-36
11	2	Push Rod Assembly	A3727	37	2	Dragarm Disc Arm Pivot Rubber Lock Pin	A3720-37
12	-	M20 x 110 Bolt	8715H	38	-	5mm R Clip	9289
13	1	M20 Nylock Nut	9172				
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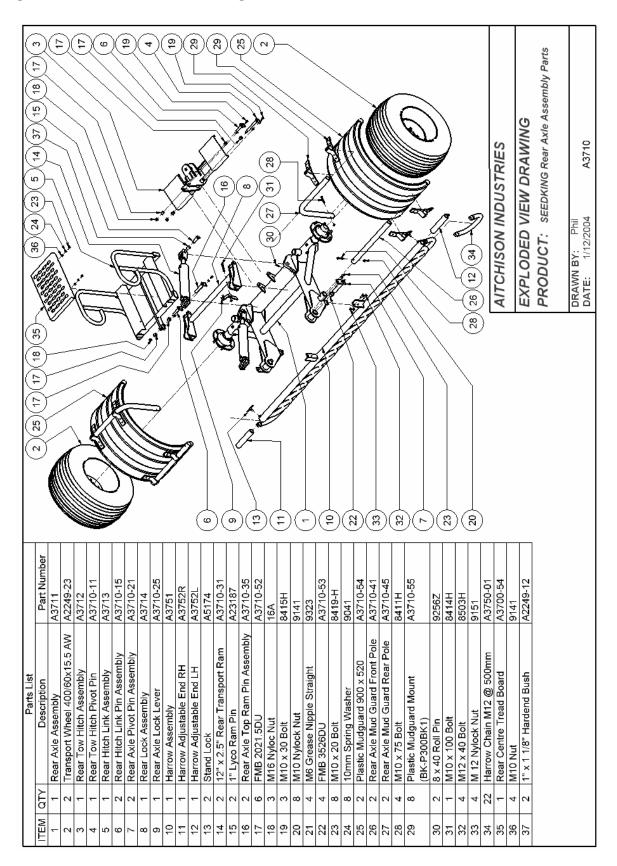
31 SK2122 DISC PIVOT ARM PARTS



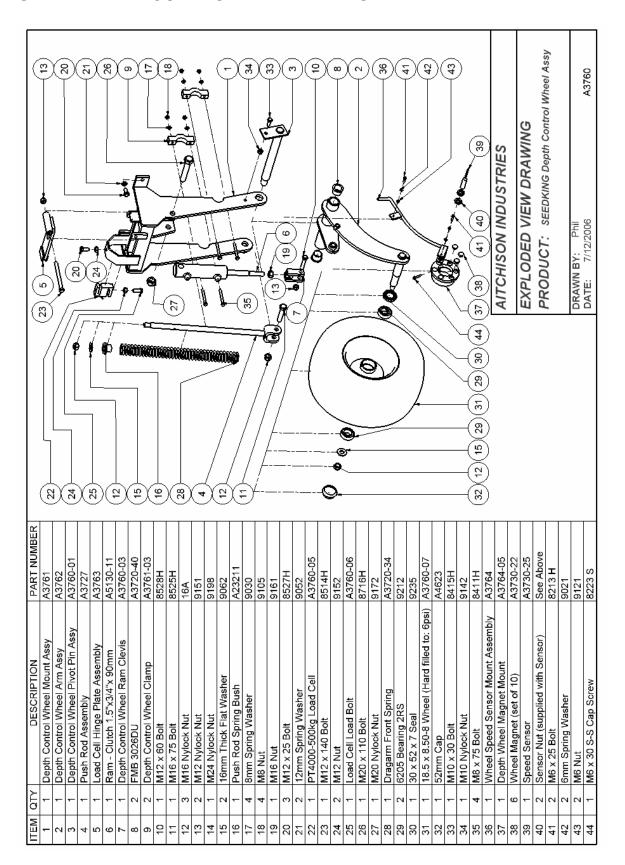
32 SK2122 STABILISER WHEEL PARTS



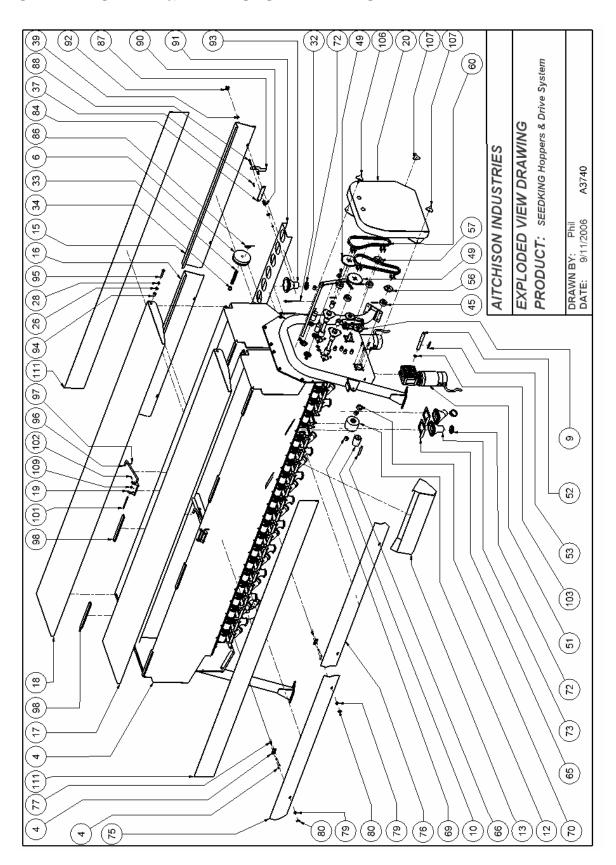
SK2122 REAR AXLE PARTS



SK2122 DEPTH CONTROL WHEEL PARTS



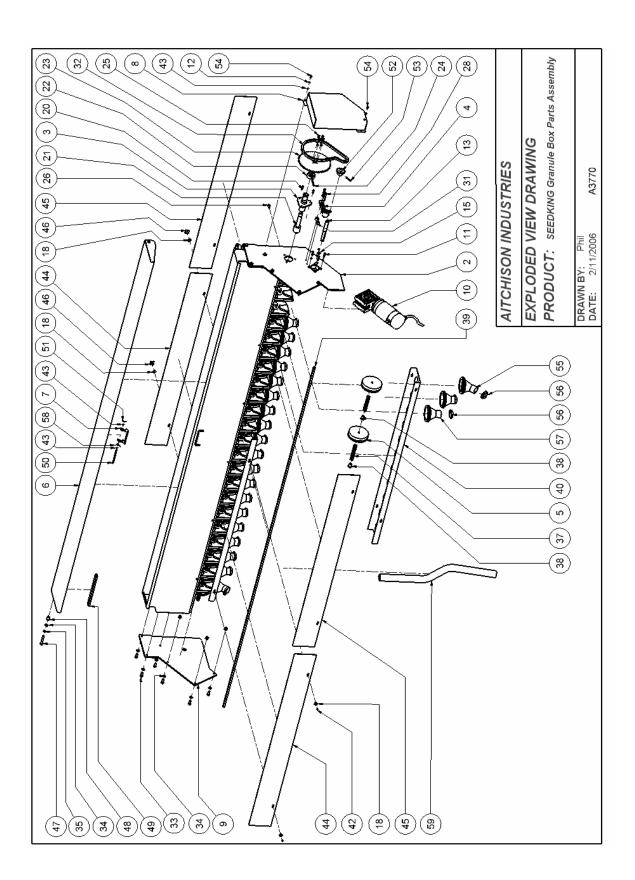
SK2122 HOPPER & DRIVE SYSTEM PARTS



SK2122 HOPPERS & DRIVE SYSTEM PART NUMBERS

		Parts List				Parts List				Parts ∟ist	
IE	αTY	DESCRIPTION	PART NUMBER	ITE	QTY	DESCRIPTION	PART NUMBER	ITE	αTY	DESCRIPTION	PART NUMBER
	-	Drive End Panel Assembly	A3702	37	22	M6 x 25 Bolt	8213H	73	7	Square Fert Cup Straight	A2290-12
2	-	Non Drive End Panel Assembly	A3703	38	46	6mm Spring Washer	9021	75	-	Fert Box LH Inspection Panel	A3740-01
Э	-	SK Seed Box Assembly	A3742	39	18	6mm Fender Washer	9022	9/	-	Fert Box RH Inspection Panel	A3740-02
4	-	SK Fert Box Assembly	A3743	4	4	S 15 Plastic Bush	A2352	77	œ	M6 x 25 S/S Bolt	8213S
2	1	Agitator Shaft Assembly	A3731	41	-	Seed Shaft Axle	A2361	78	∞	M6 Stainless Nut	91218
9	22	Sponge Pad and Disc	A2364	42	-	Fertiliser Shaft Axle	A3730-02	79	4	6mm S/S Fender Washer	9022S
7	2	Seed Shaft Mount	A2337	43	-	M10 x 20 Bolt	8419H	8	4	M6 S/S Wingnut	9108S
œ	1	Agitator Cam And Boss	A3732	44	-	M10 x 20 S/S Bolt	8419S	8	-	Seed Square Drive Shaft	A3730-07
6	2	Tensioner Chain Complete	A2350	45	m	Sprocket Boss	A2343-01	82	-	Seed Box Rear RH Inspection	A3740-04
10	22	Small Idler Roller	A2292-05	46	-	6200 2RS Bearing	9219			Panel	
1	22	Agitator Arm Assembly	A2292-01	47	-	M10 x 30 Bolt	8415H	83	-	Seed Box Rear LH Inspection	A3740-03
12	22	Large Drive Roller	A2292-09	48	-	Gearbox Spring	A23104			Panel	
13	-	Fert Calibration Tray	A2294	49	7	27T Plate Sprocket	A3730-03	8	œ	123mm Hinge Plate	A3040-08
4	4	3" x 2" S/S Butt Hinge	A23805	20	16	M6 x 20 Stainless Steel Cap	82078	82	54	4.8 x 12 S/S Rivet	9301
15	-	Seed Box Calibration Tray RH	A3746R		-	Screw		88	52	Oat Wiper	A2366
		Assembly		21	7	Seedrate Motor & Gearbox	A3730-20	87	4	Seed Tray Clip	A3040-07
16	-	Seed Box Calibration Tray LH	A3746L			60to1		88	4	M6 x 50 Bolt	8210H
		Assembly		25		Motor Drive Shaft	A3730-04	88	4	M6 Nylock Nut	9109
17	1	SK Fert Box Lid Assembly	A3745	23	2	M6x6 Key	A3730-05	6	4	Agrispred Spinner Disc Fin	A4619
18	-	SK Seed Box Lid Assembly	A3744	24	∞	M6 x 30 Cap Screw S/S	82238			Spring	
19	2	SM Lid Lock Assembly	A3140-03	22	4	6 x 50 Roll Pin	9262	9	2	Seed Tray 11 x 123mm	A3048-01
20	-	Main Drive Cover Assembly	A3733	26	-	15T Plate Sprocket	A3730-06	95	4	M6 Quid Knob	9122
21	1	Fert Square Drive Shaft	A3730-01	22	-	17T Plate Sprocket	A2347	93	22	Seed Cup Straight	A2368
22	7	M10 x 25 S/S Bolt	8418S	28	4	Spacer 20mm	A2270-10	94	4	S 206 Plastic Bush	A2355
23	7	10mm S/S Flat Washer	9042S	29	-	Fert Drive Chain 1/2" @ 1m	ZCH 1/2	92	4	M10 x 65 Bolt	8417H
24	9	10mm S/S Spring Washer	90418	90	-	Seed Drive Chain 1/2" @ 1m	ZCH 1/2	96	2	SM Lid Stay	A3140-10
25	7	M10 S/S Nut	91418	61	4	M8 x 50 Bolt	8308H	97	2	3 x 20 Roll Pin	9267
26	13	10 mm Flat Washer	9042	62	4	M8 Nut	9106	86	œ	Buffer Pad	A2375
27	8	M10 x 25 Bolt	8418H	63	4	8mm Spring Washer	9030	66	2	6mm Flat Washer	9023
28	14	10mm Spring Washer	9041	64	4	8mm Flat Washer	9031	100	2	6mm S/S Flat Washer	9022S
29	9	M10 Nut	9141	65		Fertiliser Cup Plate	A2292-12	101	2	Lid Latch Pin	A3140-02
30	Ŋ	S 210 Plastic Bush	A2357	99	52	Small Idler Roller Axle	A2292-11	102	7	2.5 x 16 Split Cotter Pin S/S	92738
31	1	16mm Shaft Collar	A2360	29		R Clip 3mm S/S	9292	103	2	18mm External Circlip	92455
32	22	Agitator Shart R Clip	A2359	89	22	Fert Unit Agitator Spacer	A2292-08	104	2	Bin level Sensor	A3730-30
33	22	Seed Pad Spring	A2280-10	69		Fert Unit Shaft Bush	A2292-06	105	4	Bin level Sensor Nut (supplied	See Above
34	22	S 9 Plastic Bush	6	20	52	Cam 16mm Wide	A2292-04			with sensor only)	
35	2	M6 Grease Nipple Straight	9323	71	1	Square Fert Cup Angled	A2290-13	106	1	M 8 x 40 Tri Knob	A3030-11
36	22	M6 Nut	9121	72	44	Crey Clip 35mm	A2370	107	7	M8 Female Tri Knob	A2353
							,	108	7	M8 x 25 Bolt	8305H
							//	109	2	Lid Lock Spring	A3142-05
								111	2	3M Yellow Panel Decal	D1513
							. ≨			A3740	
1										2	

SK2122 GRANULE BOX PARTS



SK2122 GRANULE BOX PART NUMBERS

		Parts List				Parts List	
ITEM	QT	DESCRIPTION	PART NUMBER	ITEM	ΩTY	DESCRIPTION	PART NUMBER
-	1	SK Granule Box Assembly	A3772	31	2	Spacer 15mm	A2349
7	-	Granule Box Drive End Panel Assembly	A3776	32	_	Granule Drive Chain 1/2" P/M	ZCH1/2"
က	-	Seed Shaft Mount	A2337	33	12	M10 x 25 Bolt	8418H
4	-	1/2" Fixed Chain ensioner	A2336	34	14	10 mm Flat Washer	9042
ß	22	Sponge Pad & Disc	A2364	32	4	10mm Spring Washer	9041
ဖ	-	SK Granule Box Lid Assembly	A3773	36	12	M10 Nut	9141
7	-	SM Lid Lock Assembly	A3140-03	37		Seed Pad Spring	A2280-10
ω	-	SK Granule Box Drive Cover Assembly	A3774	38	22	68	A2280-11
თ	-	Granule Box Non Drive Panel	A3770-01	39	-	Seed Square Drive Shaft	A3730-07
10	-	Seedrate Motor & Gearbox 60to1	A3730-20	40	-	Seed Tray Moore Granule A	A2281-11
1	4	M6 x 30 Stainless Steel Cap Screw	8223 S	41	-	Seed Tray Moore Granule B	A2281-11
12	21	6mm Spring Washer	9021	42	4	M6 Nylock Nut	9109
13	-	Motor Drive Shaft	A3730-04	43	12	6mm Flat Washer	9023
14	-	M6x6 Key	A3730-05	44	2	Seed Box Rear LH Inspection Panel	A3740-03
15	-	18mm External Circlip	92455	45	2	Seed Box Rear RH Inspection Panel	A3740-04
16	7	S 15 Bush	A2352	46	4	M6 Quid Knob	9127
17	-	M6 Grease Nipple Straight	9323	47	2	M10 x 65 Bolt	8417H
9	7	6mm Fender Washer	9022	48	7	S 206 Bush	A2355
19	7	M6 Nut	9121	49	4	Buffer Pad	A2375
2	7	M6 x 25 Bolt	8213H	20	-	Lid Latch Pin	A3140-02
21	~	Seed Shaft Axle	A2361	51	-	2.5 x 16 Split Cotter Pin	92738
22	~	Sprocket Boss	A2343-01	25	-	13T Sprocket Half Inch Pitch	A2339-01
23	-	50T Plate Sprocket	A3770-02	23	-	6 x 40 Roll Pin	9251
24	-	6 x 50 Roll Pin	9262	54	2	M6 x 16 Bolt	8208H
22	4	M6 x 20 Stainless Steel Cap Screw	82078	55	2	Seed Cup Angled	A2369
56	-	M10 x 20 Bolt	8419H	26	22	Crey Clip 35mm	A2370
27	7	M8 Nut	9106	25	20	Seed Cup Straight	A2368
58	7	M8 x 45 Bolt	8303H	28	-	Lid Lock Spring	A3142-05
58	2	8mm Spring Washer	9030	29	_	35mm Seed Dropper Hose P/M	A2384-01
30	7	8mm Flat Washer	9031				
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39 SK2122 MDECU BOX AND SENSOR PARTS

