5 Leg Subsoiler

Operation, Maintenance & Parts Manual



Rata Industries
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CHECKLIST FOR RATA WHOLEGOODS

Model **SSF5R** **Serial Number:**_____

Pre dispatch Manufacturer		Pre Delivery Dealer
☐	All bolts tight	☐
☐	Machine fully greased	☐
☐	Operators manual attached to machine	☐
☐	Skeiths (if fitted) aligned with legs	☐

Signed off by:_____ Signed off by:_____
Rata dispatcher *Date:* *Dealer dispatcher* *Date:*

Installation Check

Acquisition warranty competed online	☐
All components in place	☐
Machine set up to customer specifications	☐

Signed off by:_____
Dealer Deliverer *Date:*

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****model may not be exactly as shown****

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DOUBLE YOUR SUBSOILER WARRANTY TO TWO YEARS BY GOING ONLINE AND FILLING OUT THE RATA PRODUCT REGISTER FORM.

http://www.rataindustries.co.nz/register-product

Or, scan the QR code located on the headstock top RHS

ACQUISITION AND WARRANTY

On delivery of the Subsoiler carefully check for transit damage and report any defects immediately. Please visit our website and complete the product register form. The commencement of warranty is based on the purchase date of your machine, provided the product register form is received at Rata Industries within 14 days of the purchase date. Warranty claims will only be processed upon receipt of proof of purchase and submission of the warranty registration form within 14 days of purchase.

Dear Customer

Rata Industries would like to take this opportunity to welcome you as the new owner of a 5 Leg Subsoiler. We want your Subsoiler to be the most efficient and reliable piece of equipment you have. This manual has been produced to assist in the correct operation, maintenance and care of your machine.

The safe operation and maintenance of your Subsoiler is very important to prevent any personal injury and/or damage. Read and fully understand the following instructions before using your machine or carrying out any maintenance.

Machine Identification

The machine serial number is stamped on the headstock top box section. Please record the machine serial number in the product registration form on the rata website.

http://www.rataindustries.co.nz/register-product

Serial number is located on the headstock top box section.

Always quote the serial number when re-ordering parts.

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WARRANTY

Rata Industries warrants new products sold by it, to be free from defects in material and workmanship for a period of 12 months after the date of purchase to the initial user. This warranty is for the replacement or repair of any part found to be defective during the warranty period. This warranty only applies to new Rata products.

If the product is purchased for commercial use or hire gain, then the warranty is reduced to three months.

Should the product fail as a result of a fault in material or sub-standard workmanship by the manufacturer within the warranty period then Rata Industries will agree to repair this product subject to the conditions of this warranty.

This warranty excludes any transport costs or damage and excludes all normal maintenance costs. Rata Industries will not pay for mileage, freight, courier costs, oil, grease or any other expendable materials.

As the use of the Rata product is outside our control, Rata Industries accepts no liability for lost earnings or down time directly or indirectly caused by the machines performance.

Replacement parts provided under the terms of this warranty are covered for the remainder of the warranty period applicable to the product in which they were installed as if such parts were original components of that product.

No warranty work is to be started without first getting approval and following the correct warranty procedures as set out by Rata Industries. Rata Industries will not under any circumstances pay for or repair any damage caused by misuse or neglect of any machine.

All warranty issues and claims are totally at the discretion of Rata Industries.
Warranty Exclusions: loose bolts and screws including worn holes for the same, belts, tyres, blades, PTO shafts, disc bearings and hydraulic hoses, these parts are generally not covered by this warranty.

DELIVERY

The machine may be delivered partly assembled, however, before final assembly and use carefully check the entire machine for transit damage and report any problems immediately.

Rata Industries thanks you for buying our product.
We are sure you will be impressed!

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MAINTENANCE AND LUBRICATION

Take care to keep the floor area clean when performing maintenance to the machine. Help protect our environment and prevent injuries from falls by cleaning up any spilled or leaking fluids with absorbent products. Take care to dispose of contaminated rags or absorbents in accordance with your local environmental regulations. Put away tools and roll up any air lines or electrical cords that were used when making repairs to the equipment and dispose of scrap materials or worn out parts in an appropriate manner.

Never crawl under the machine to make repairs or adjustments or replace tines and shares, unless you have properly blocked and supported the Subsoiler frame. The Subsoiler must be secured in a fixed position in order to prevent it from moving or falling before making any attempt to work underneath. Use suitable shop stands or lifting devices that can support the entire weight of the implement. Never use cement blocks, bricks, hollow tiles or other props that may crumble or collapse under continuous load.

Wear gloves when changing points as the edges can become extremely sharp when worn.

Regularly check all nuts and bolts for tightness and secure if loose. Replace worn out or damaged machine components.

Establish a good routine for regular inspection, lubrication and maintenance in order to keep the machine in good operating condition.

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SAFETY INSTRUCTIONS

WARNINGS AND CAUTIONS

1. Throughout this manual the word WARNING is used to alert the operator and others to the risk of personal injury during the operation of the equipment. CAUTION indicates the possibility of damage to the machine.

2. Carefully read and take note of the following warnings before attempting to tow or operate the Subsoiler.

Warning: Ensure the Subsoiler 3PTL tow hitch is in good repair and suitable for attaching.

Warning: Check that all moving parts are in good repair and that all the fasteners are correctly tightened.

Warning: Never allow any person to ride on the Subsoiler.

Warning: Do not exceed the maximum weight/capacity specified by the manufacturer of the towing vehicle.

Warning: Foreign objects can cause extensive damage to the machine and result in injury to the operator. Make sure there are no foreign objects in your path of travel.

Warning: Before using the Subsoiler the operator should ensure that this manual is read and fully understood.

Warning: Obey all road rules and regulations while driving with the Subsoiler on the road.

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PRODUCT SAFETY PRECAUTIONS

Make certain all safety decals and reflectors signs are applied to your machine. Refer to your local governmental regulations for more information on proper procedures and markings for safe road transport in your area.

Reduce speed in adverse weather, when turning or travelling on inclines or uneven ground. Always start and stop slowly.

DANGER! Watch for wires.
Take care when transporting the implement around power lines. Serious injury or death to the operator or bystanders will result through direct or indirect contact with power lines.
The operator is responsible at all times to comply with the local government regulations and insure the safe transport of the implement when transporting large or oversized implements on public or private roadways. Careful consideration must be given in order to prevent accidents with other vehicles and avoid coming in contact with obstacles such as: bridges, tunnels, overpasses, guard rails, road signs, traffic lights, power lines, public utilities, and other structures that may be encountered along the chosen route. In some jurisdictions the operator may be required to obtain special permits or arrange for escorts before transporting oversized equipment. Rata Industries is not liable for personal or property damage caused by inappropriate, unauthorized or unsafe transport or operation of equipment.

Be certain all persons are clear of working area in and around the machine whenever raising or lowering the machinery or in any way using the tractors hydraulic system.

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USING AND SETTING UP THE MACHINE

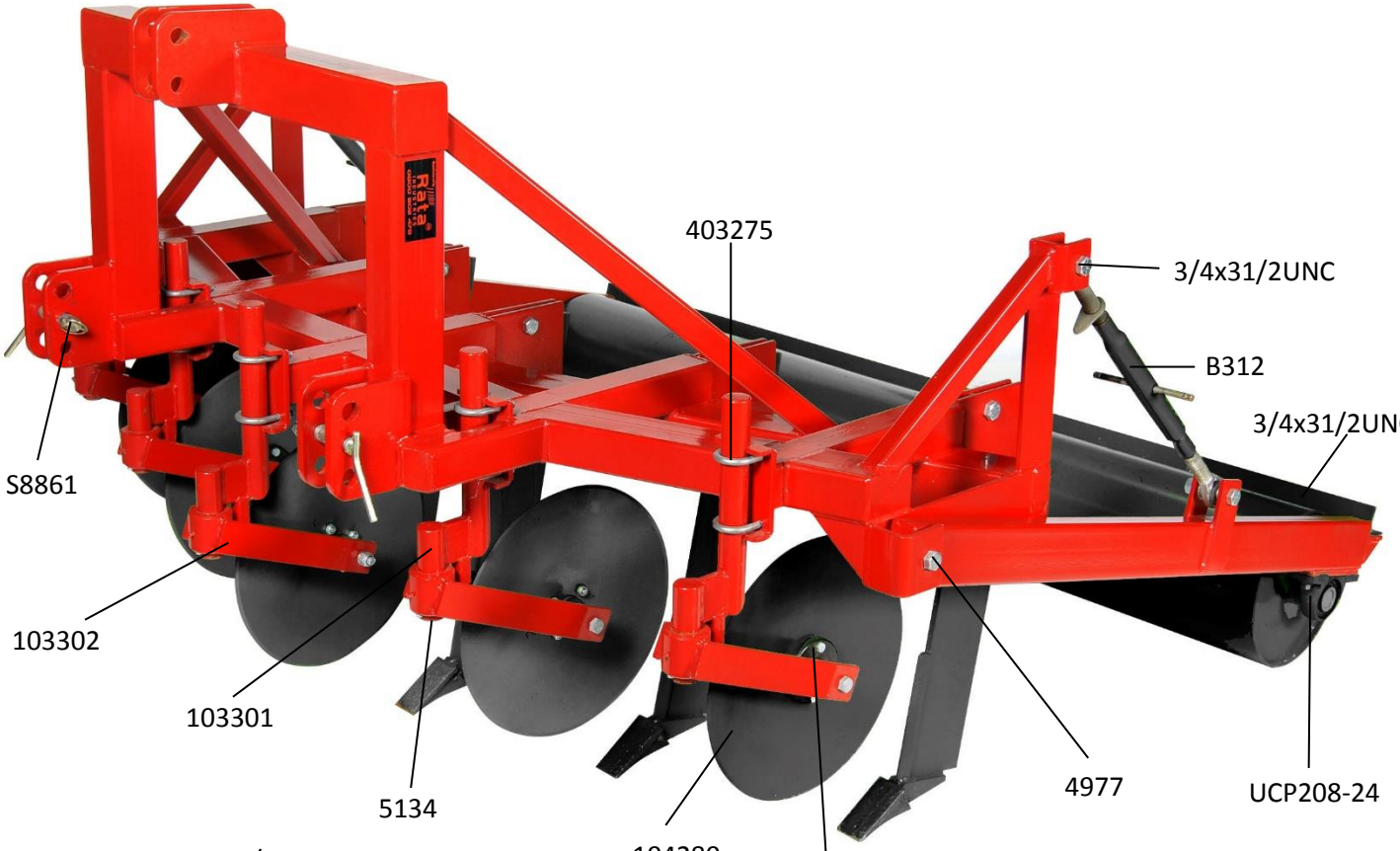
1. Ensure machine is level
2. Ensure coulters/skeiths (if fitted) are correct height and line up with the legs
3. Ensure 2 point linkage arms are level when in operating position
4. Adjust the turnbuckles on the roller or crumbler (if fitted) to a length that gives the desired depth.
5. Avoid turning when operating
6. Do not exceed 15kmph when using machine in the ground, optimum speed is between 10-12kmph
7. Be aware of your surroundings, know the lay of your irrigation pipes to prevent them being pulled up when subsoiling!

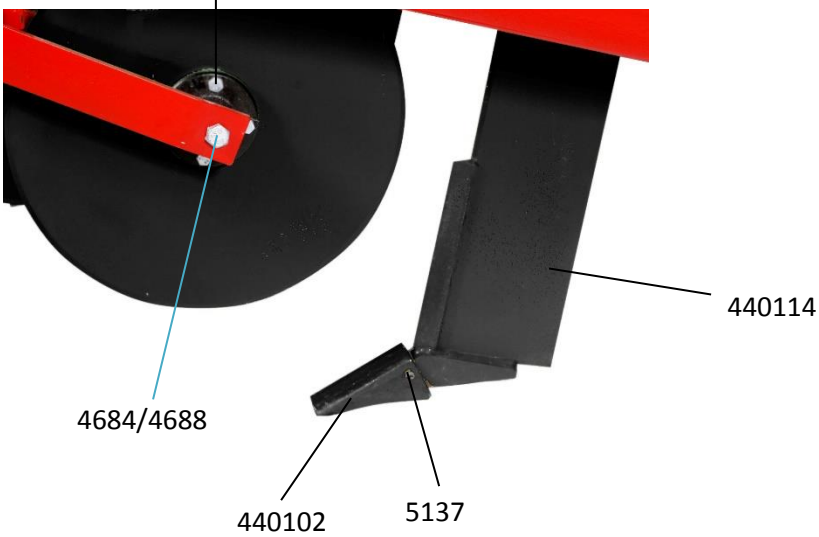
TROUBLE SHOOTING

Malfunction	Cause	Remedy
Not doing a tidy finish on pasture	Coulters/skeiths are out of line with the legs	Alter coulters/skeiths to ensure they cut in the same line as the leg
Machine won't penetrate	Top link too long	Shorten top link (Hydraulic top link is an advantage)
Machine won't stay in ground	2 point linkage arms are too low	Lift 2 point linkage arms up to next hole on machine.

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PARTS ANNOTATION





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PARTS DESCRIPTION

Part No.	Description
403275	12mm U Bolt skeith clamp
B312	Turnbuckle 400mm
UCP208-24	UCP208-24 108D1 Bearing/Housing
4977	3/4 x 4 1/2 UNC Bolt & Nut ZP
104425	Coulter Centre Hub
104280	18" Plain Coulter
103301	Panerazor Coulter Stalk
103302	Sub Soiler Coulter Forks
S8861	Lower Link Pin Double Shear - Cat 2
4361	M10x30 Bolt Zinc
4353	M10 Nut Nyloc Zinc
440114	Rata Subsoiler Leg C/W Toe
5137	Roll Pin 10x50 Zinc
440102	Rata Subsoiler Replaceable Toe
4684	M16x180 Bolt & Nut Galv
4688	M16 Washer Spring Zinc
3/4x31/2UNC	3/4 x 3 1/2 UNC ZP Bolt
5134	Split Pin 8x80 Zinc
104430	Coulter Centre Complete (Hub/sandwashers/axle/M16 & M10 Bolts & Nuts/grease nipple)

To re-order parts, contact your local dealer or call Rata Industries on 0800 802 478.

Alternatively, you can visit the Rata website and fill out the parts order form.

http://www.rataindustries.co.nz/orderform

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OPERATORS NOTES

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