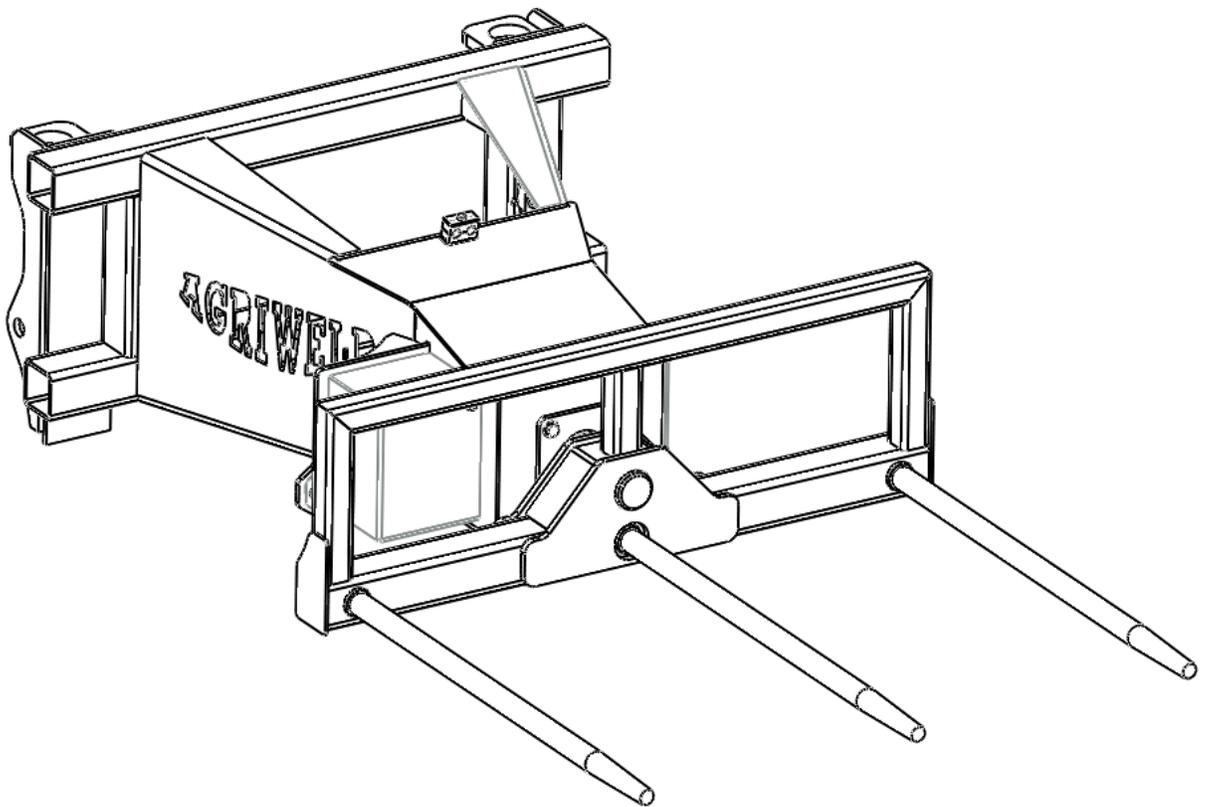


AGRI WELD

Operator Manual

Bale Rotator



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User Information

Before using your Bale Rotator for the first time it is IMPORTANT that all operators make themselves familiar with the unit and must read this OPERATORS MANUAL and SAFETY INSTRUCTIONS attentively.

Getting Started

The Bale Rotator will be fitted and delivered with the correct bracketing to suit the forklift/loader it is intended to fit together with the correctly swaged hydraulic pipes and fittings applicable to your forklift/loader. If these pipes are damaged they must be replaced immediately with NEW pipes and fittings. **DO NOT ATTEMPT TO REPAIR HYDRAULIC PIPES OR ALLOW ANY ONE ELSE TO REPAIR THEM.**

Any replacements can be ordered from us and sent to you overnight if required.

The Bale Rotator is a low maintenance unit, and requires little mechanical attention as such, other than **greasing the main shaft, radius arm and hydraulic ram/rod ends at the greasing points located and visible at these areas and by following a general basic care routine.**

Your **Bale Rotator weighs approx. 360kg** excluding bracketing and has a **max loading of 1500kg.**

SAFETY NOTE: During use, please be aware of increased weight due to shock loading. This includes performing manoeuvres such as driving down a rough field, at some speed, with a full box. The resulting bouncing effect is known as shock loading and the weights can be significantly magnified to the point of overload.

The Bale Rotator is not to be used for any other purpose than for which it is intended – that is the lifting and rotating of one bale at a time or movement of stacked bales in a field up to a maximum load of 1500kg. **It is not to be used as a fork lift.** Damage to the unit resulting from overload will not be covered under a warranty or liability claim.

The specifications, descriptions and illustrations in this manual are accurate at the time of publication but may be subject to change.

Safety

All operators of the Bale Rotator and forklift/loader must hold the appropriate forklift licence or certificate of competence to do so.

All operators must be familiar with the Bale Rotator Operators Manual and forklift/loader operations prior to use. If safety instructions are not observed and complied with it can lead to the risk of injury to the operator and others as well as damage to the machine, property and the environment. Non-compliance to the safety instructions can lead to claims for damages/injury becoming invalid.

Dangers, operating errors and exemption from liability

1. No responsibility will be accepted for possible dangers arising from operations complying with the designated use.
2. Damage to bales particularly vulnerable to damage during processing cannot be entirely ruled out. Weather conditions, the quality of the produce and many other circumstances beyond our or the operator's control have an influence on the vulnerability to damage of the produce being processed. Many circumstances can have an influence on the vulnerability to damage of produce and these examples are not exhaustive.
3. Agriweld shall not be liable for any damage to agricultural produce and other items, which occurs as a result of normal operating, adjustments errors or other incorrect usage.
4. Agriweld accepts no liability for any damage caused as a result of operations not complying with the designated use of the machine. This also applies to damage to agricultural produce caused by certain external influences, which cannot be avoided with the current state of the art.

NOTE: We are advised that this machine will not be transported on public roads. Please be aware that the spikes will require suitable covering, if road transport is intended, to protect and highlight other road users.

Qualification & Training

Only personnel with the appropriate forklift/loader licence are authorised to use this machine.

Statutory minimum age limits must be observed and reliable personnel only should perform maintenance/work on this machine.

Persons undergoing training or instruction or taking part in a general training course should only use this machine under direct supervision of an experienced and trained person.



Agriweld shall not be responsible for any damage/injury caused by the use of parts/repairs not supplied and/or approved by Agriweld.

General Safety

Any warning signs/instructions on the machine provide important information and must be observed.

Ensure that you are familiar with the machine before starting work.

Check round the machine for any noticeable damage, or missing parts before starting work.

It is advisable that the operator does not wear jewellery and baggy clothing to avoid the risk of snagging and trapping.

Ensure that you are working in an area clear of obstructions and watch out for wandering individuals (particularly children!).

Important Safety Instructions

Take extra care when attaching the Bale Rotator to the forklift/loader to ensure that it is attached correctly via the bracketing and hydraulic fittings. (See page 7 Connection to the forklift/loader).

Ensure that the forklift/loader and its hydraulic system is in full working order.

Never allow any person to stand between the forklift/loader and the Bale Rotator during connection or at any time.

Never exceed the permissible weight of the bales for handling.

Take into account the protrusion of the Bale Rotator and tines when manoeuvring around and take particular care when approaching junctions and negotiating corners.

The driving characteristics of the forklift/loader are influenced and altered by the attachment of mounted machines and it is important to ensure adequate steering and braking ability as required.

Never allow any person to sit or ride on the Bale Rotator at any time

Never perform any adjustments to the Bale Rotator whilst mounted, unless the forklift/loader is stopped, turned off and the Bale Rotator is resting on the ground where possible.

Ensure that the forklift/loader cannot roll away by use of a park brake or wheel chocks.

Never allow any person to stand or work beneath a suspended load.

It is forbidden to allow persons to ride on the Bale Rotator or the forklift/loader it is attached to, at any time.

Keep clear of the unit whilst under operation to prevent injury.

Connection to the Forklift/Loader

The Bale Rotator will be delivered already fitted with the correct bracketing, hydraulic fittings and hydraulic hose to fit your forklift/loader.

Attachment

Stand the Bale Rotator up the correct way in an area free from obstruction to allow you to drive the forklift/loader towards the bracketing.

For Quick Hitch bracketing, connect as you would with any other attachment and the type of bracketing fitted to the Bale Rotator.

Attach the hydraulic hoses via the pipes and fittings supplied to fit your forklift/loader whilst it is TURNED OFF.

YOU ARE NOW READY FOR OPERATION.

Operation

Once the Bale Rotator is attached to the forklift/loader correctly and checked you can begin operation.

The following step by step procedure will take you through the basic operation of the machine;

Drive in to collect a bale until the tines are fully inserted and the bale is resting against the Bale Rotator's carriage (as far back as it will sit).

Ensure that the Bale Rotator is not tilted forwards on the forklift/loader as the bale could slide off.

Pick up the bale and tilt the rotator back slightly to keep the load against the carriage and drive to the desired location.

Position the forklift/loader so that on rotating the bale it will not catch or hit nearby machinery/people etc.

Begin rotation. Ensuring that the forklift carriage and Bale Rotator is NOT tilted forwards to prevent the bale sliding off. Rotation is left (from behind) through 360 degrees. The operator will have to stop the flow of oil using the lever in the forklift cab when sufficient rotation has been achieved. "Feathering" the controls may be necessary until the operator is familiar with the machine.

Adjusting the Speed

If the rotation speed requires adjustment, turn the dial located on the top of the speed controller valve (page 18) to speed up/slow rotation.

Maintenance

Regular maintenance is a prerequisite for good operational reliability. The following safety advice is to be observed before starting any maintenance, cleaning or repair work.

Trained personnel may only execute maintenance activities.

Inform operating personnel before beginning special operations and maintenance work! Delegate a supervisor!

If necessary, ensure that the maintenance area is adequately secured.

Use suitable tools and wear gloves when working on the machine!

Switch off the machine completely for maintenance and repair work and ensure that it is protected against inadvertent starting by:

- Locking the principal controls and removing the ignition key and/or
- Detaching the hydraulic supply.

Carry out maintenance and repair work only when the machine is positioned on stable and level ground and has been secured against involuntary movement and toppling.

To avoid the risk of accidents, individual parts and larger subassemblies being moved for replacement purposes should be carefully securely attached to lifting tackle. Use only suitable hoisting and lifting gear with adequate load capacity, which is in proper working condition. Never work or stand under suspended loads!

The securing of loads and the instruction of crane operators should only be entrusted to experienced persons. A signaller giving instructions must be within sight of the crane operator or must be provided with a radio link.

For carrying out overhead work, always use specially designed facilities or safe ladders/platforms. Never climb on the machine itself! Wear a safety harness when carrying out maintenance work at greater heights.

Clean the machine, especially connections and threaded unions, of any traces of oil, fuel or preservatives before carrying out maintenance/repairs! Never use aggressive detergents. Use lint-free cleaning cloths.

Before cleaning the machine with water or steam jets (high-pressure cleaners) or other cleaning agents, cover or tape all openings which – for safety and operational reasons – must be protected against ingress of water, steam or cleaning agents.

After cleaning, examine all fuel, lubricant and hydraulic oil lines for leaks, loose connections, scuffing marks and damage. Any defects found must be rectified without delay.

Always retighten any screwed connections that have been unscrewed during maintenance and repairs.

Any safety devices removed for setting-up, maintenance or repair purposes must be refitted and checked immediately upon completion of the maintenance and repair work and prior to operation.

We recommend greasing your Bale Rotator using a good quality general purpose grease weekly whilst working under normal conditions, and twice weekly under extreme use and or very dry/dusty conditions.

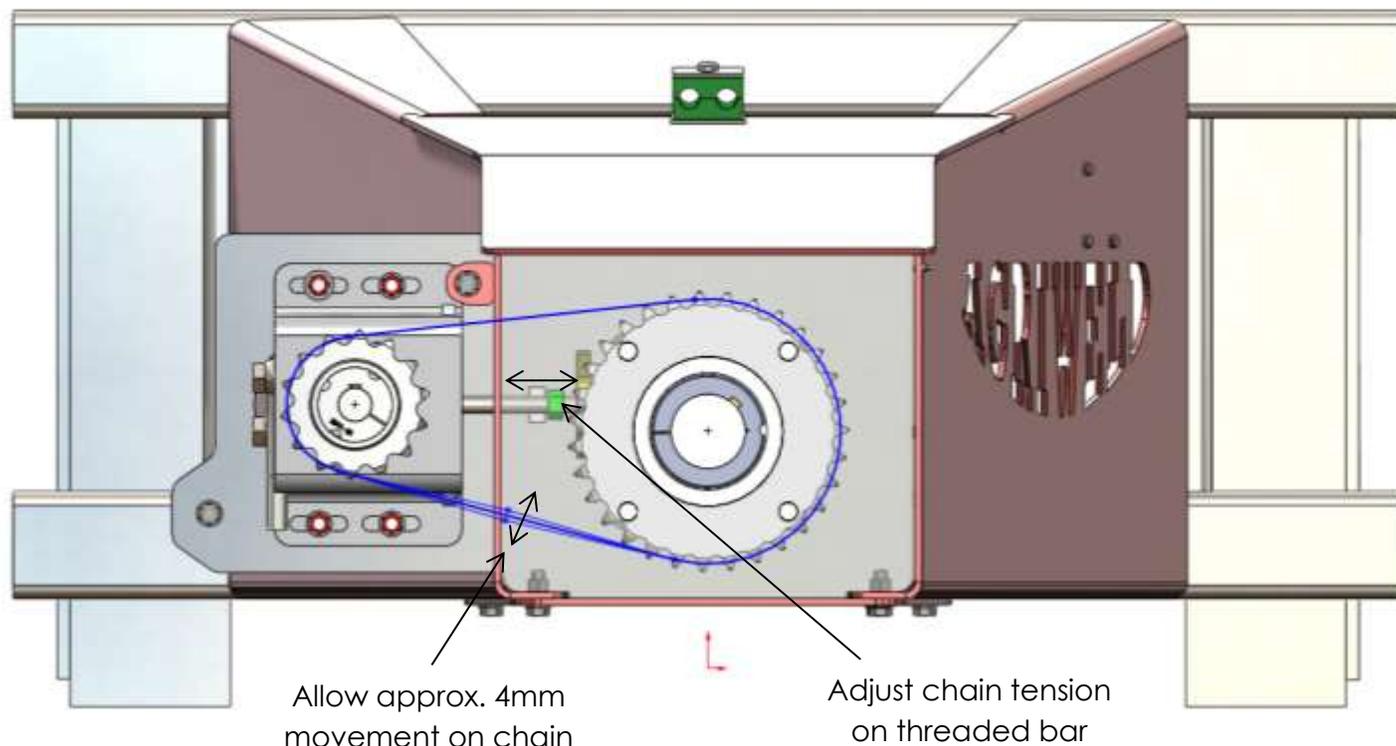
Greasing Instructions

- Whilst connected to the Forklift/loader grease bearing housings (no. 19 & 27) (via grease nipples no. 7, see page 13) using 3 pumps from the gun.
- Being aware of your own safety/safety of others, rotate the machine through its entire cycle and repeat the process.
- Rotate machine on forklift/loader back and forth several times to work the new grease in.
- Check chain tension weekly. See page 11 for Instructions.
- Check all three bale spikes are secure and that the fixings (page 17 no. 2) are intact and tight.
- You are now ready to use the machine again.

It is important to follow the recommended greasing routine to protect your Bale Rotator from damage and prolong the lifespan of its main operating parts.

Failure to carry out this maintenance may result in your warranty becoming invalid due to non-maintenance.

Chain Tensioning



CHECK CHAIN TENSION WEEKLY

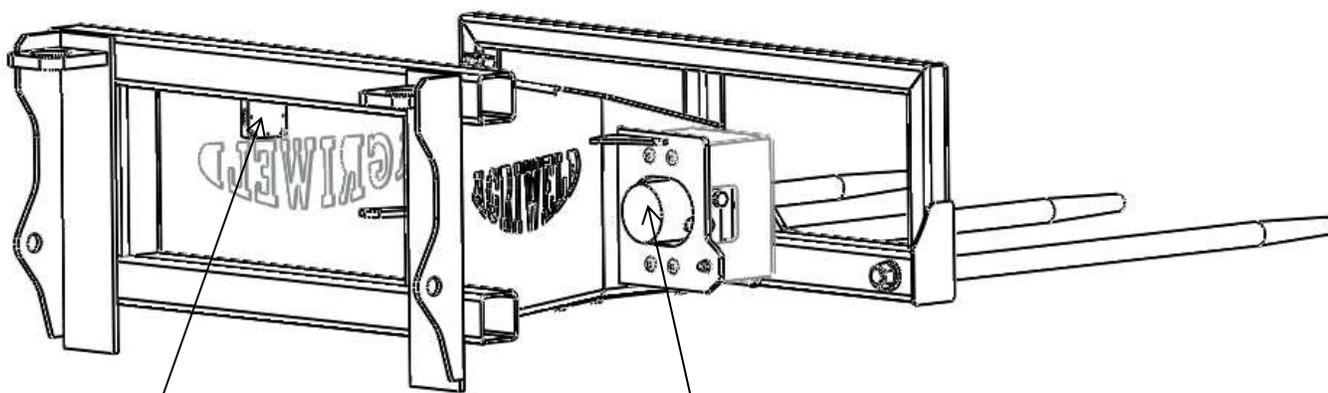
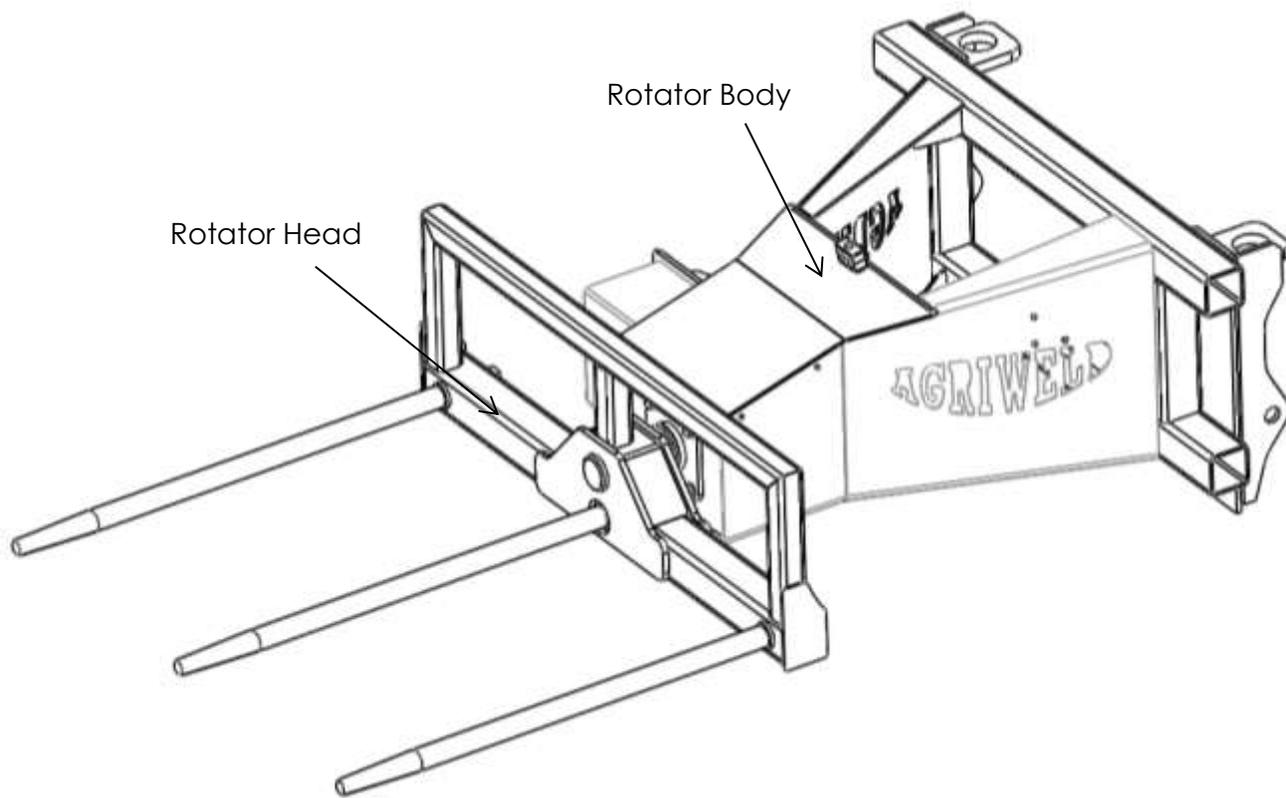
TO ADJUST THE CHAIN TENSION

The chain needs to be tensioned with approx. 4mm of movement when compressed by hand between the two sprockets.

Adjust the tension as follows:

1. Slacken the 4 x M12 nylon nuts on the smaller sprocket flange plate (in red above)
2. Slacken the LHS M16 nut located on the tensioner bar (marked green)
3. Wind out the RHS nut to the desired tension
4. Re-tighten LHS M16 nut to fix
5. Re-tighten the 4 x M12 Nylon nuts on the flange plate to fix
6. Ensure all fixings are tight

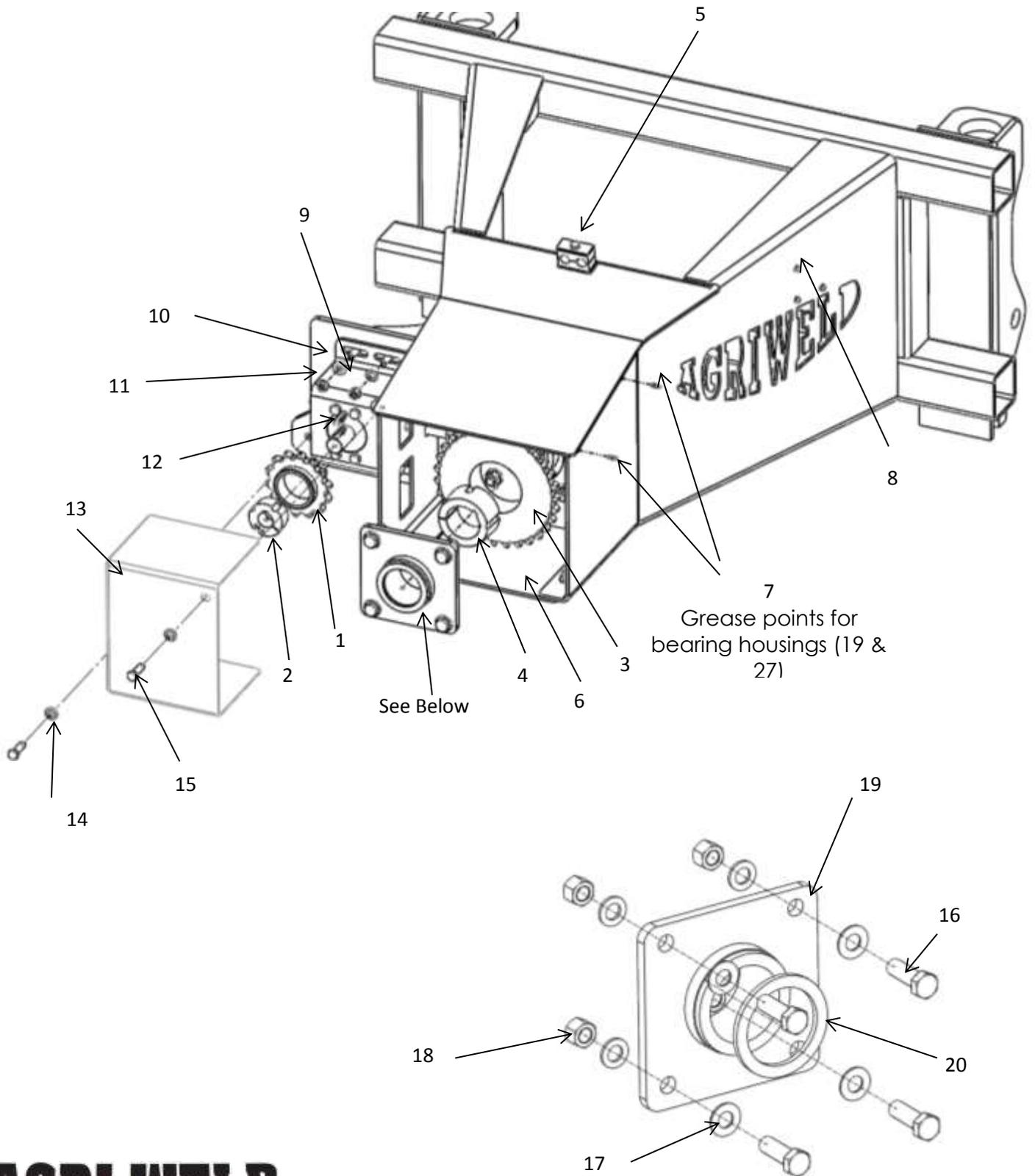
Full Assembly



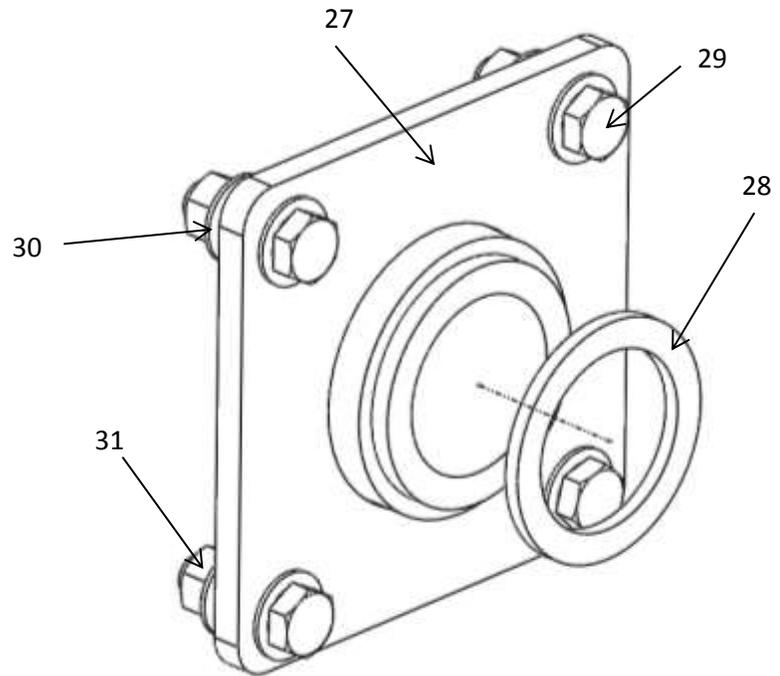
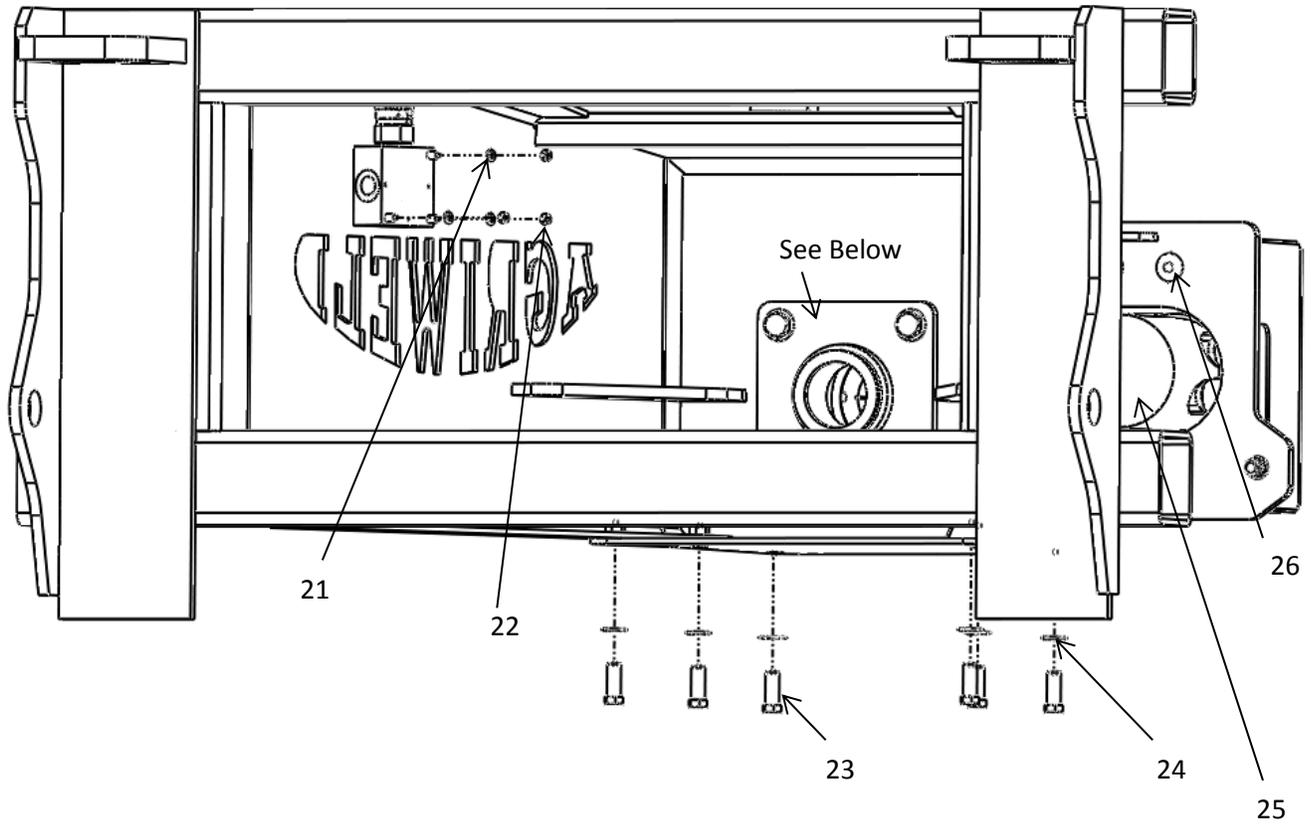
Speed Controller Valve
(See Page: 18)

Motor Chain Tensioning
(See Page: 11)

Rotator Body Assembly



Rotator Body Continued



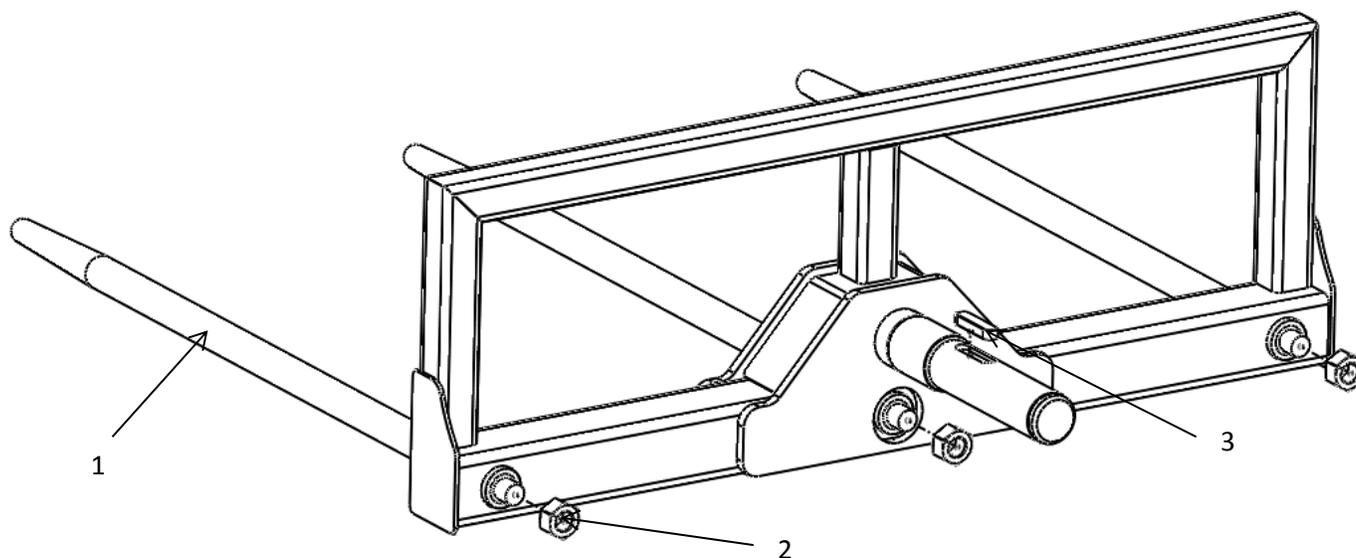
Rotator Body Parts List

Item Number	Part Number	Description	Quantity per Machine
1	AW_SE114TL	14 Tooth Drive Sprocket	1
2	AW_2012_32TL	Taper Lock to fit 14 Tooth Sprocket	1
3	AW_SE131TL	31 Tooth Sprocket	1
4	AW_3020_70TL	Taper Lock to fit 31 Tooth Sprocket	1
5	AW_SP110APPDPAS	Pipe Clamp Kit	1
6	AW_0622	Bottom Cover Plate	1
7	AW_M6_GN	M6 Grease Nipple	2
8	AW_M6_60	M6 x 60 Speed Control Bolt	3
9	AW_NH_0801	Chain Tensioner	1
10	AW_12W	Tension Plate Washer	4
11	AW_12N	Tension Plate Nut	4
12	AW_MSK	Motor Shaft Key	1
13	AW_0301	Motor Chain Guard	1
14	AW_12W	Chain Guard Washer	2
15	AW_M12_40	Chain Guard Bolt	2
16	AW_M16_50	80mm Housing Bolt	4
17	AW_16_W	80mm Housing 16mm Washer	8
18	AW_16_N	80mm Housing Nut	4
19	AW_80_BH	80mm Bush Housing	1
20	AW_0605	80mm Shaft Washer	1

Rotator Body Parts List Continued

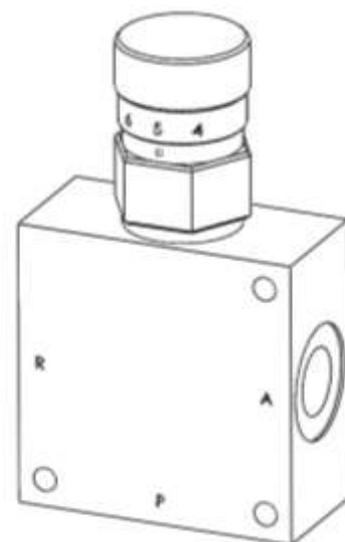
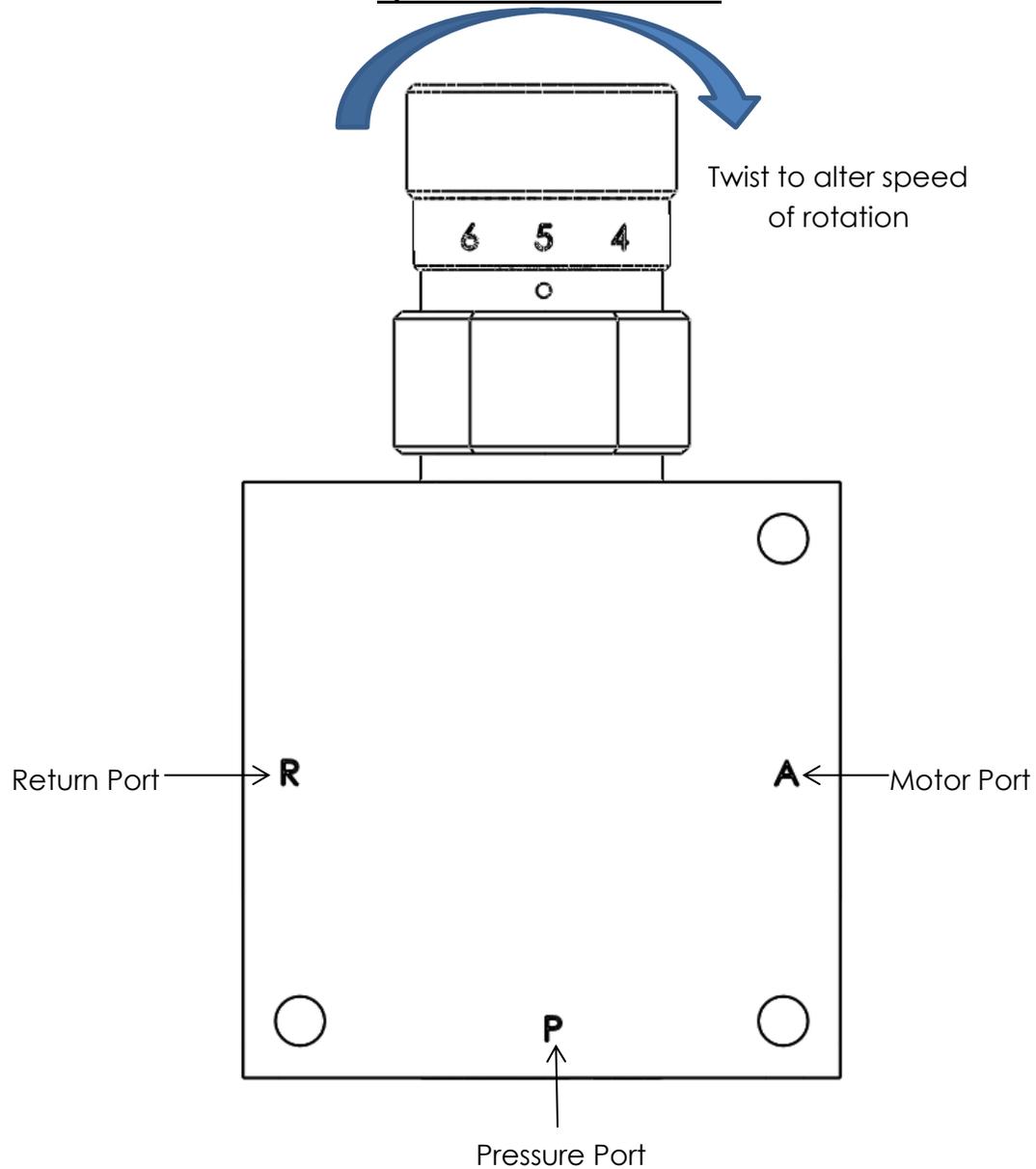
Item Number	Part Number	Description	Quantity per Machine
21	AW_6W	Speed Controller Washer	6
22	AW_6N	Speed Controller Nut	3
23	AW_M12_35	Bottom Cover Bolt	6
24	AW_12W	Bottom Cover Washer	6
25	AW_SMH2504BDGP	Rotator Motor	1
26	AW_M12_40CS	Tensioner Cup Square Bolt	4
27	AW_70_BH	70mm Bush Housing	1
28	AW_0613	70mm Shaft Washer	1
29	AW_M16_50	70mm Housing Bolt	4
30	AW_16W	70mm Housing Washer	8
31	AW_16N	70mm Housing Nut	4

Rotator Head Assembly



Item Number	Part Number	Description	Quantity per Machine
1	AW_4042	1240mm Bale Spike	3
2	AW_4013	M30 Bale Spike Nut	3
3	AW_MSK	Main Shaft Key	1

Speed Controller Valve



Stickers

Sticker	Part number	Description	Quantity per Machine
	AW_BR_GB (85mm x 50mm)	Great Britain Sticker	2
	AW_BR_GNS	Grease nipple Sticker	2
	AW_BR_RMS	Read Manual Sticker	1

Warranty

Your Agriweld Bale Rotator is covered for a period of 12 months from the date of despatch/collection (which is recorded on our files) against faulty components and/or bad workmanship.

Our welders are coded to BS EN 287-1 and our welding procedures are approved in accordance with: BS EN ISO 15614-1 to manufacture your equipment and all products are checked for quality prior to delivery/collection.

We cannot be responsible for claims arising from ignorance, occurrences outside our control, such as accidents, and malicious damage.

Damage occurred during transit must be reported on signing for the item from the haulier to enable us to make a claim for damages caused during transport.

WARRANTY CLAIMS FOR DAMAGE DURING TRANSIT

Damage occurred during transit via an external haulier must be reported immediately upon unloading and signing for the item. The limit of our liability to undertake repairs to products damaged during transit is dependent on signing for any damaged product upon delivery as "DAMAGED".

CE DECLARATION OF CONFORMITY

The equipment which accompanies this declaration is in conformity with EU Directive(s):-

2006/42/EC Machinery Directive

Manufacturer Name:	Agriweld Ltd
Manufacturer Address:	Main Street Garton-on-the-Wolds Driffield East Yorkshire YO25 3ET
Product:	Bale Rotator
Product Options:	All
Individual Serial Number:	
Product Description:	AGRIWELD Bale Rotator
Date of Last Load Test Report:	N/A
Supplementary Information:	
Authorised Signatory on Behalf of Manufacturer:	
Name of Signatory:	Dawn Foster
Position in Company:	Director
Date of Issue:	