



# WINTON STONE BURIER

## WSB SERIES



### OWNERS MANUAL

**PLEASE READ THIS MANUAL BEFORE OPERATING MACHINERY**

Congratulations on purchasing your new **Winton** stone burier!

Before you get started, we have provided a helpful space to jot down a few important details about your new Winton machine.

Model Number: **WSB**

Serial Number:

Date of purchase:

Factory Reference: SB105/SB125/SB145

This manual should be considered a permanent part of this machine and should remain with it even if the machine is subsequently sold.

Winton continually seeks advancements in its product design and quality. Therefore, while this manual contains the most current product information available at the time of printing, there may be minor discrepancies between your machine and this manual.

If you have any questions concerning this manual, please consult your local dealer.

First Published: February 2016

## General Safety Information

Ensure all potential operators read this manual thoroughly before using the machine.

**Safety:** Ensure tractor and machine is stationary and keys out of ignition before set-up/maintenance.

**Safety:** Failure to follow good safety standards could result in severe injury or even death.

**Misuse:** This machine is designed for use with compact tractors, and should be used only for the indicated purpose. Winton does not take responsibility if the machine is used for any other purpose. Children must not operate the machine under any circumstance.

**Modification:** Do not modify equipment in any way. This may impair the operation and overall safety of the machine.

**Tractor requirements:** Use only with compact tractors within power range specified.

**Misuse transport:** Do not use machinery to transport personnel or livestock.

**Condition:** For the safety of personnel and optimum performance of the machine, you should check the condition of the machine and the tractor before starting. Before use check all nuts and bolts are tight.

**Spatial awareness:** Always check the operating area is safe before starting machinery.

**Operator clothing:** The operator should not wear loose clothing while operating machinery.

**Safety wear:** Always use appropriate ear protection when running a tractor and machinery. Ensure you are wearing protective gloves when servicing and using machinery.

**Bystander safety:** Ensure bystanders keep away from the machine when it is in use. Do not touch moving parts when the machine is at work.

**Public places:** When travelling on the road/public places, always keep the PTO turned off.

**Maintenance:** Always keep the machine maintained and in a good state. Where necessary, repair or replace any defective parts. Do not modify the machine.

**Sharp objects:** Pay attention to the sharp/pointed parts while servicing the machine.

**Safety guards:** All protective parts should be in good condition before operating machinery.

**Safety signs/stickers:** Keep all safety signs clean and legible. Replace any which are missing or illegible. If a component with safety sign(s) is replaced, make sure new safety sign(s) are attached in the same locations.

**Operating speeds:** Machinery and PTO should be operated at the recommended speed at all times.

**Safety awareness:** Good safety requires that you familiarise yourself with various safety signs, the type of warning and the area, or particular function related to that area.

**Alertness:** Never consume alcohol or drugs as these can hinder alertness/coordination. Consult your doctor about using this machine while taking prescription medications.

## General Safety Information (Continued)

### Machinery Pre-Use Checks

On receipt of your new Winton machine and again within the first 4 hours of use, or the 'shake in period', we always recommend checking over the machine.

- Check all bolts, nuts and screws are tight on the unit.
- Tighten/check any bolts and nuts securing blades.
- If your machine has belts check the tension and adjust if required.
- Apply grease to grease points if necessary.
- Check gear oil level and top up if needed. Do not overfill.

### Tractor Pre-Use Checks

Check that the machine is properly attached to the tractor. Ensure that secure pins are used on the linkage mounting pins.

Be sure to add extra weights to the front of the tractor or add wheel weights if required.

Check that the tractor PTO shaft turns freely and that the machines PTO drive shaft can extend easily. Grease the PTO drive shaft using the grease points.

The chain on the PTO shaft should be checked and in a good condition. The universal joints installed should be in a good state, with proper protective parts.

Before installing the PTO shaft, the tractor and machine should be stopped and the key removed.

Install and secure all safety guards, doors and covers before starting.

Bystanders should leave the immediate area before connecting the drive to the tractor.

### Running/Operating Checks

- Always keep the PTO output from the tractor at **540 RPM** when running machinery.

### Post-Use Regular Checks

Check blades, belts and wearing parts. Be sure they are not damaged and blades swing freely in their mount. Repair or replace as required.

Clean machinery and check for/clear any entangled material which may have got stuck around the rotating parts.

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## 1. Dimensions & Specifications

Model	WSB105	WSB125	WSB145
Weight	330kg	355kg	380kg
Tilling Depth	12cm	12cm	12cm
Working Width	105cm	125cm	145cm
PTO Turning Speed	540 RPM	540 RPM	540 RPM
No. Of Blades	20	24	28
Recommended Tractor HP	20-28 HP	25-30 HP	30-45 HP
Width	125cm	145cm	165cm
Depth	150cm	150cm	150cm
Height	90cm	90cm	90cm
PTO Shaft Size	70-90cm	70-90cm	70-90cm
Linkage Size	Category 1	Category 1	Category 1

## 2. Installation & Set-Up

**Safety:** Ensure tractor and machine is stationary and keys out of ignition before set-up/maintenance.

**Safety:** Before attaching/detaching machinery ensure the hydraulic lift system is in a neutral position.

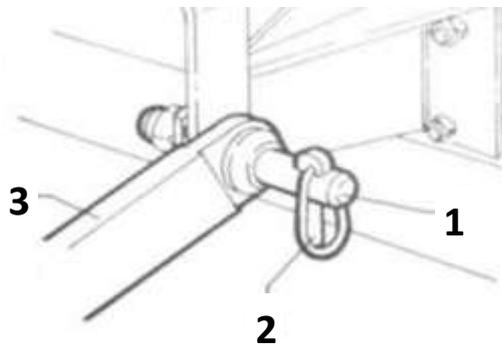
**Safety:** Make sure the PTO drive isn't connected at any point until instructed to do so.

You will need:

Your tractor, tractor top link arm (adjustable), linkage pins, PTO shaft, and PPE safety wear.

### Attaching The Machine

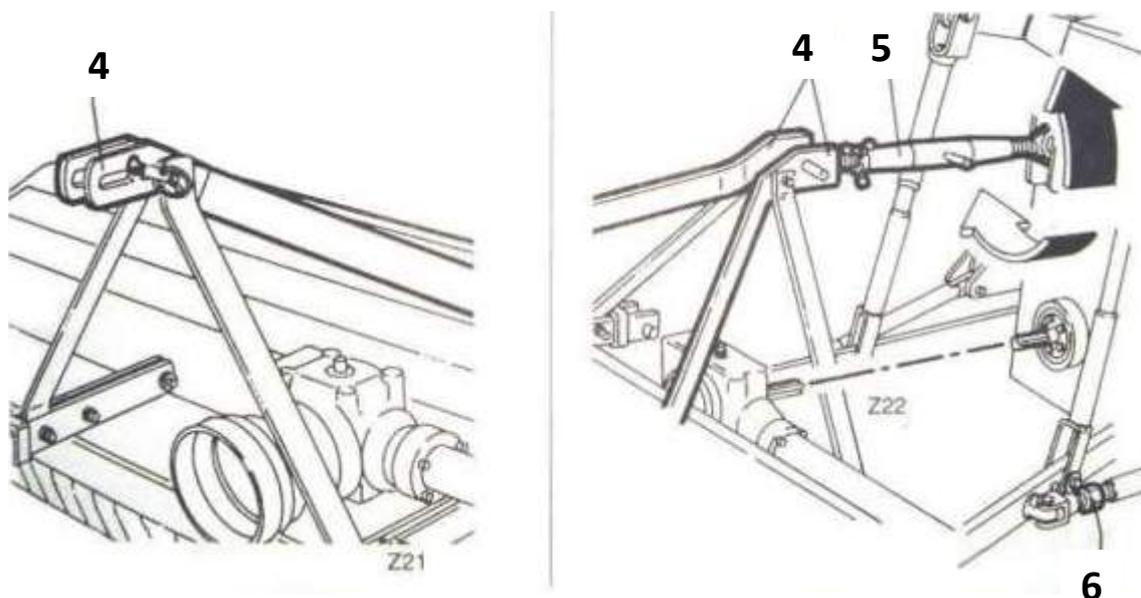
Start by finding a flat piece of ground. Position your tractor and lower the three point linkage **(3)** to line up with the machine. Then attach the machine to the tractor using the three point linkage pins **(1)** and fix in to place with the linch pins **(2)**.



Adjust the top linkage arm on the tractor **(5)** until the PTO of the implement is parallel to the ground. Start the tractor engine and lift the machine from the ground, then turn off the tractor engine and remove the ignition key.

Level the machine so that both sides are parallel to the ground by adjusting the tractor's lifting arms. The blades must be at the same distance from the ground on both sides of the implement.

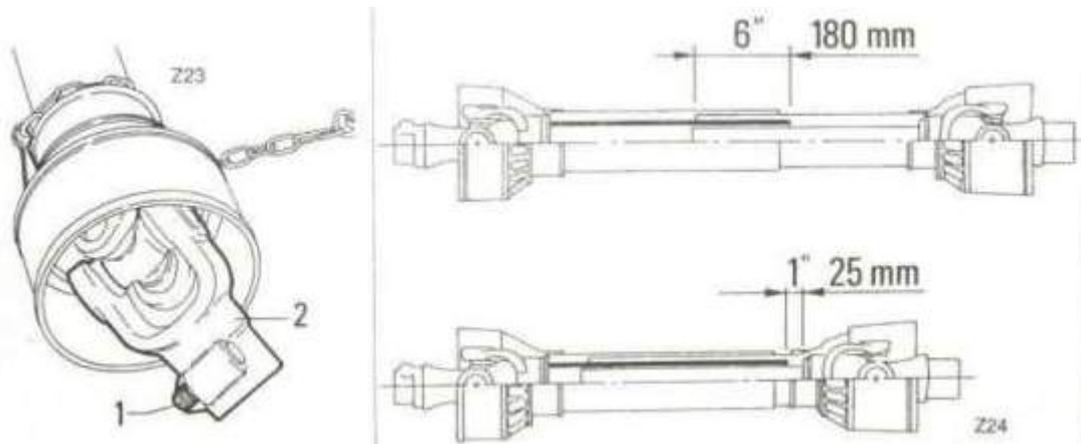
Adjust the tractor lower link arm adjusters **(6)** to prevent any excessive movement to the side. A movement of about 50mm each side (2 inches) is recommended.



## 2. Installation & Set-Up (Continued)

**Safety:** Ensure tractor and machine is stationary and keys out of ignition before set-up/maintenance.

Attach the PTO driveline checking that it correctly meshes at both ends. If a shear bolt or slip clutch safety system is used on the PTO shaft this must be mounted on the implement end. Check that the PTO driveline is the correct length. The minimum overlap must be 180mm (6 inches) when working and the driveline must be able to travel at least 25mm (1 inch).



Always couple the two ends of the driveline and check they are locked in place. Completely insert the sprung lock pins **1** into the grooves in the PTO shaft on both the tractor and machine sides.

The working speed of the machine should always be at a slow walking pace (approx. 1 to 3 mph) depending on the working conditions. Areas with denser stones and soils should be worked at a much slower pace. The working depth can be adjusted using the rear roller on the machine as required [see section on adjusting the tilling depth].

Check your PTO shaft's grease points and apply grease if needed. Then attach the PTO drive shaft and ensure the locking pin is secure on both the tractor and mower sides. Attach the chain to a secure point on the tractor/implement.

Operate the machine with the tractor in low range gear and the PTO delivering 540 RPM.

### Pre-Use Checklist

Before starting the machine, always check and adjust the following:

- Blade condition. [Section 4]
- Gear oil & chain reservoir oil level. [Sections 5 & 6]
- Drive chain tension. [Section 7]
- Tilling depth adjustment. [Section 8]
- Lubrication/grease points. [Section 10]
- Tightness of all bolts, nuts and screws.
- All protective guards are in place.

### 3. Operating Advice

**Safety:** Ensure tractor and machine is stationary and keys out of ignition before set-up/maintenance.

#### Working Conditions

The working speed of the machine should always be at a slow walking pace (approx. 1 to 3 mph) depending on the working conditions. Compacted ground and denser soil types should be covered at a slower pace for the best finish and to avoid any damage to the machine. The speed of the tractor also effects the degree to which the ground is broken up.

To set the optimum speed for your working conditions, first select the lowest gear and progressively increase until the most satisfactory result has been identified. Gear down and release the accelerator if the speed is too fast.

#### First Use Advice

Lower the tractor lift arms until the blades are near the ground without touching the ground. When working with the machine the lift arms must always be fully lowered and locked into position to sustain the working depth of the machine. Working depth should only be regulated by the roller. Then engage the PTO drive to the rated speed (540 RPM).

Then slowly lower the lift arms to the ground to allow the blades to gradually cut into the soil (do not drop the machine suddenly to the ground). When the machine is working the soil then move away slowly in a low gear. If you find the machine is struggling on the surface then lower your speed or raise the working depth.

After having worked for a few meters, stop and check whether the desired result is being obtained. Make any adjustments which may be necessary and then continue with the job. The worked soil should always be kept to the driver's right side.

#### General Safety Tips

Always raise the implement from the ground during manoeuvres and around bends.

Do not reverse with the machine unless this is strictly necessary. If unavoidable first disengage the PTO, then lift the implement from the soil and make sure that the manoeuvre area is clear.

Never lift the implement more than 25cm from the ground with the PTO driveline engaged or the driveline could be damaged.

The maximum angle for the driveline with the PTO engaged is 20°. A greater angle may cause strong vibrations and/or damage to the machine.

### 3. Operating Advice (Continued)

**Safety:** Ensure tractor and machine is stationary and keys out of ignition before set-up/maintenance.

#### Stones and Obstructions

Always remove any obstructions, stones or other objects which could hit or become entangled in the blades. If you have not cultivated the land before walk over the land and look out for any visible objects and also rake over the land to identify any non-visible obstructions.

The rotary tiller is not generally suitable for work on very stony soil. A few small stones are usually tolerated and will create no difficulties. On the other hand, working on excessively stony soils can damage the blades and the machine itself. Such use will also void the guarantee.

#### Stone Size and Quantity

The machine buries stones in limited quantities and only stones which fall within the size limits indicated. To ensure the best performance, the stones must not be larger than half the work depth (e.g. for a job that is 10 cm deep, stones of up to 5 cm can be buried) and a large quantity of stones of this size should not be in the soil. The optimum working condition is when the quantity of stones does not exceed 15% of the volume of earth being worked.

If there are any stones which are larger than the recommendations, they must be removed before starting work. If not, they could catch on the rotor and damage the machine. If there is an excessive quantity of stones on the ground (even if they are smaller than the advised size), the quality of the work could be compromised as it will not be possible to bury all of them.

#### Ground Conditions & Working on Gradients

Always avoid working on sloping surfaces if possible. If you chose to work on a gradient always take care, it is preferable to work upwards or downwards rather than across the gradient to minimise the risk of overturning.

Always check and comply with the tractor manufacturer's instructions, particularly in relation to the maximum gradient for working. When working on slopes the working speed should always be reduced, gradually varying the speed and direction of the vehicle when manoeuvring.

Never operate on wet, slippery grass or soil or where the tyres are struggling to grip. If this is unavoidable, always work at a low speed and take care.

## 4. Blade Replacement

**Safety:** Ensure tractor and machine is stationary and keys out of ignition before set-up/maintenance.

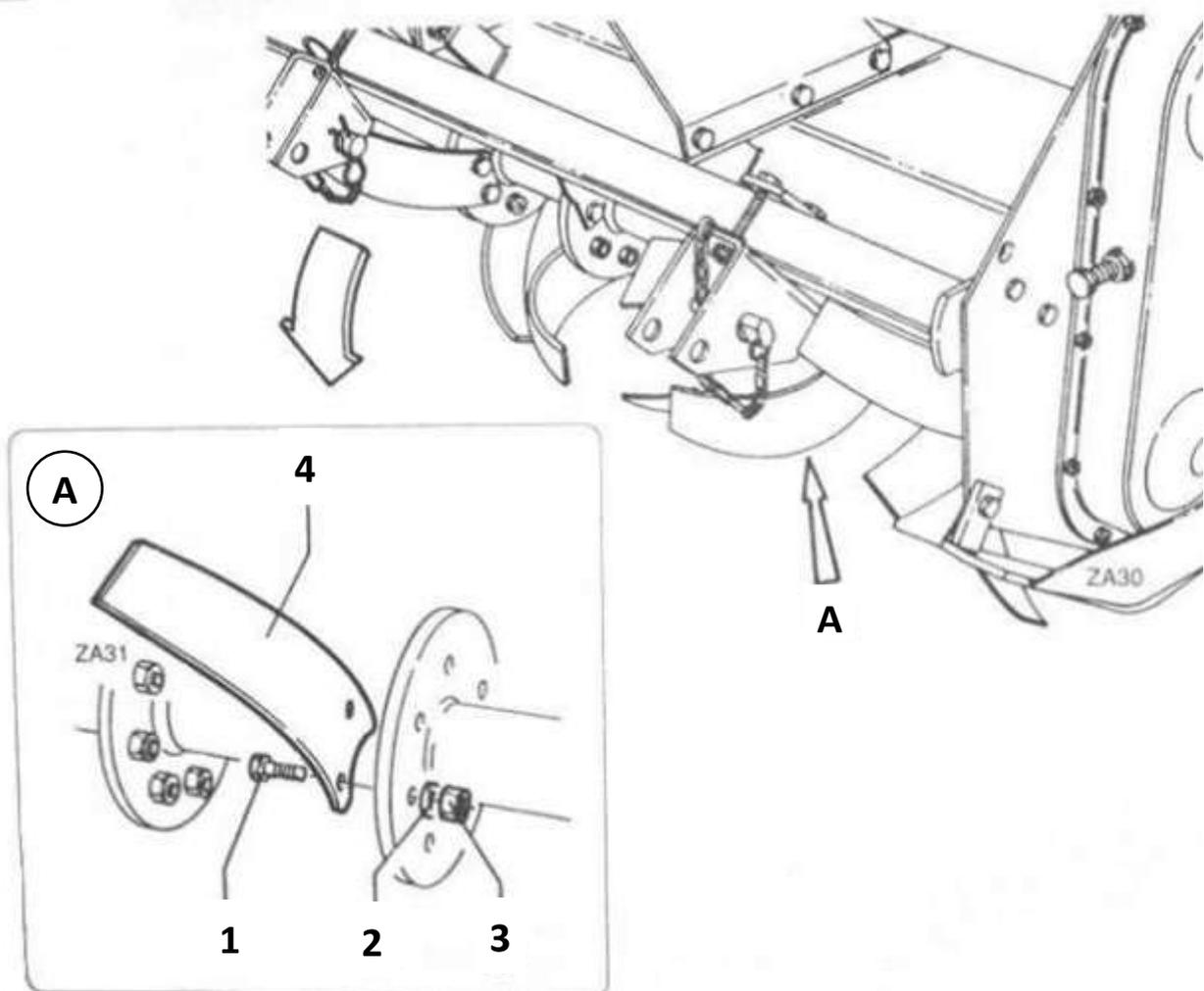
**Safety:** Always take care when handling and changing sharp blades.

Sufficiently lift the machine so that the blades and rotor can be accessed easily. Always support the machine on rigid supports and ensure it is stable before carrying out any work.

The blades must always be replaced if they are damaged, bent, worn or blunt.

Take care to ensure that the new blades are mounted in the same position as the old ones and ensure the sharp side of the blades point in the same direction as the rotor turns.

The bolts fixing the blades to the rotor flange must be mounted with the head of bolt **(1)** on the blade side and washer **(2)** and nut **(3)** on the flange side.



### Changing Blades

1. Remove the blades by unscrewing bolts **(1)** and nuts **(3)**.
2. Insert the blade/s **(4)**.
3. Replace bolts **(1)** and nuts **(3)**. Ensure bolt head is on the blade side.

## 5. Gear Oil Check & Change

**Safety:** Ensure tractor and machine is stationary and keys out of ignition before set-up/maintenance.

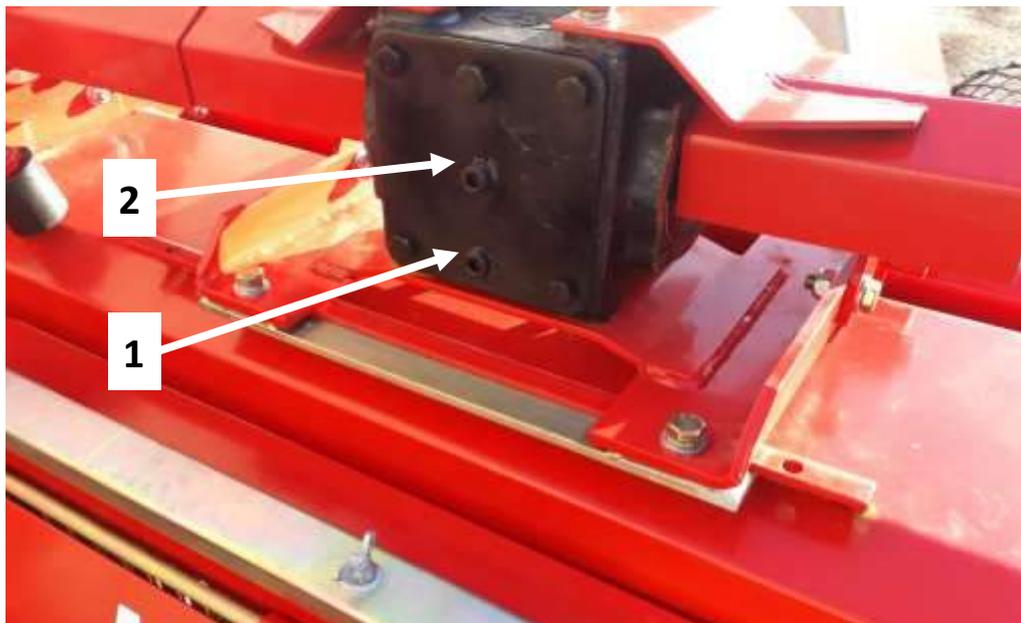
**Safety:** Always follow manufacturers instructions for oils and lubricants.

### Important Information

Gear Oil Grade	80w90 gear oil (or equivalent) by condition
Gearbox Oil Level	Approx. 0.5 litres to level plug
First Oil Change	50 hours use
Oil Change Frequency	250 hours/yearly (whichever is first)

Do not mix old and new oils together or mix different types of oil. Always dispose of old oils safely and in the correct manner.

Always make sure the machine is on a flat and level surface when checking oil levels. The machine should be left at a standstill to cool down for at least 10 minutes. Ensure the machine is stable before carrying out work and will not upturn.



### Oil Change/Check Gearbox

1. Remove plugs **(1 & 2)**.
2. The oil level should be up to the edge of level plug **(1)**.
3. Top up with oil (if required) using filler hole **(2)**.
4. Replace both plugs **(1 & 2)**.

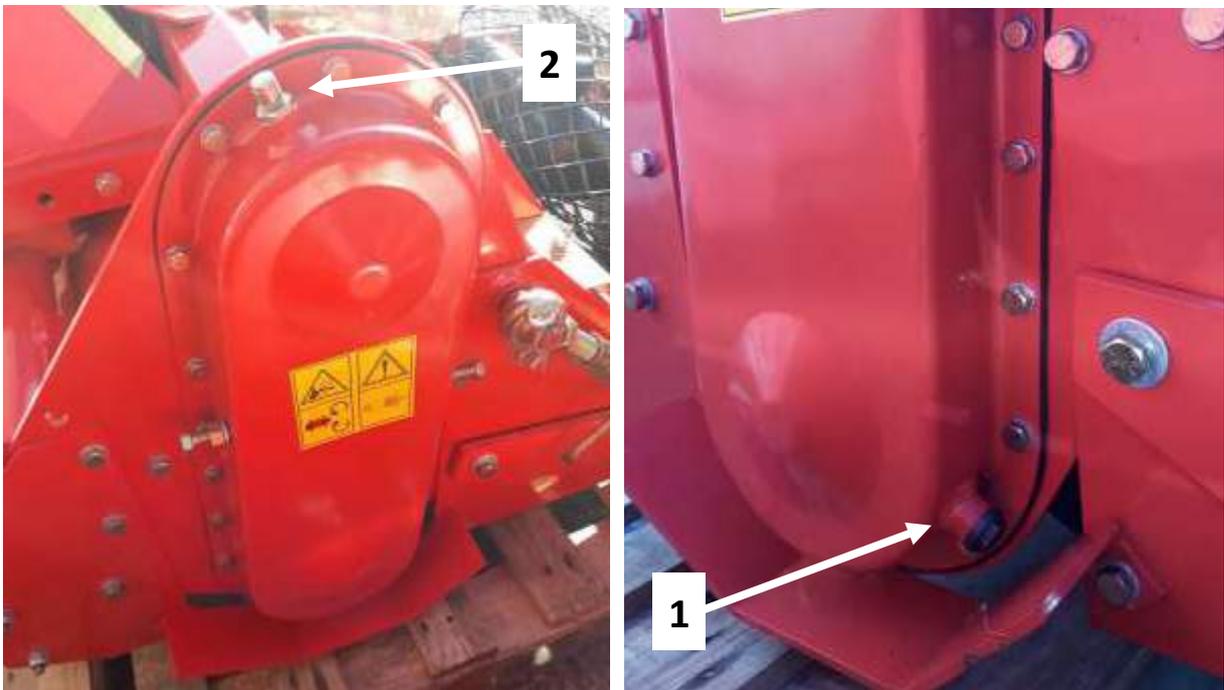
## 6. Chain Reservoir Oil Check & Change

**Safety:** Ensure tractor and machine is stationary and keys out of ignition before set-up/maintenance.

**Safety:** Always follow manufacturers instructions for oils and lubricants.

### Important Information

Chain Reservoir Oil Grade	SAE140 gear oil (or equivalent) by condition
Reservoir Oil Level	Approx. 0.2 litres to level plug
First Oil Change	50 hours use
Oil Change Frequency	250 hours/yearly (whichever is first)



### Oil Change/Check Chain Reservoir

1. Remove level plug **(1)** and wind out breather **(2)**.
2. Check the oil reaches the edge of level plug **(1)**.
3. Top up with oil (if required) using filler hole **(2)**.
4. Replace both plugs **(1)** and breather **(2)**.

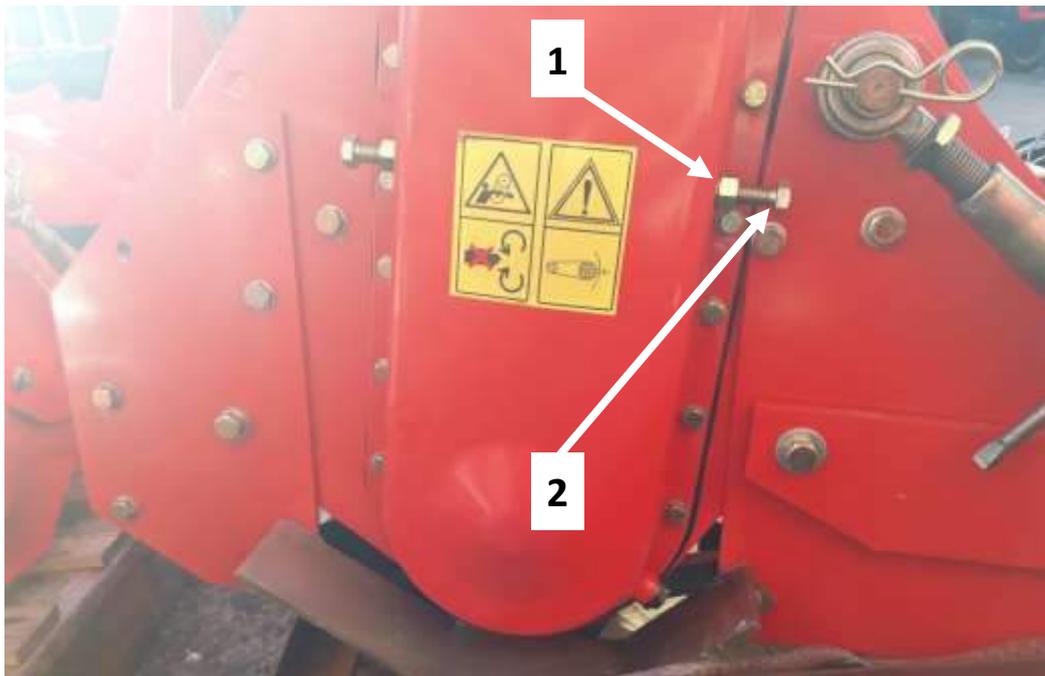
If an oil change is required, start by removing the remove old oil using an oil pump. Then replace this with new oil using the steps above.

## 7. Chain Tensioning

**Safety:** Ensure tractor and machine is stationary and keys out of ignition before set-up/maintenance.

**Safety:** Always take care when working near or with sharp blades.

The tension of side transmission chain should be checked and/or adjusted regularly to ensure the machine is working efficiently. It is helpful to have someone assist you on this job, as you will need to spin the rotor and tighten the tensioner bolt at the same time as this can be tricky alone.



### Drive Chain Tensioning

1. Slacken off nut **(1)** on the chain tensioner a few turns.
2. Tighten the chain tensioner bolt **(2)** by hand as far as possible.
3. Ask an assistant or use your other hand to turn the blade rotor.
4. When the maximum tension is achieved by hand, unscrew tensioner bolt **(2)** by one turn.
5. Keep it in this position by tightening lock nut **(1)**.

After setting the tension, turn the blade rotor several times by hand to check that it rotates without encountering any excessive resistance. If the rotor seems to jam in a certain point, repeat the chain tensioning procedure from the beginning.

## 8. Adjusting Tilling Depth

**Safety:** Ensure tractor and machine is stationary and keys out of ignition before set-up/maintenance.

**Safety:** Always take care when handling and working near sharp blades.

Getting the set up of your machine correct is the key to creating the best finish when cultivating. It is always best to take several trial runs, to get the set up correct, before tackling a larger area.

The initial set up of the tractor's top linkage arm and the linkage set up will influence tilling. But it is key to set the rear roller to get the correct depth when cultivating.

### Roller Adjustment

- Use the bar **(1)** to twist both of the adjusters **(2)** (similar to tractor top linkage arms) to extend or shorten the arms.
- Extending the arms will create a shallower tilling depth. Shorten the arms to lift the rear roller and achieve the maximum working depth.

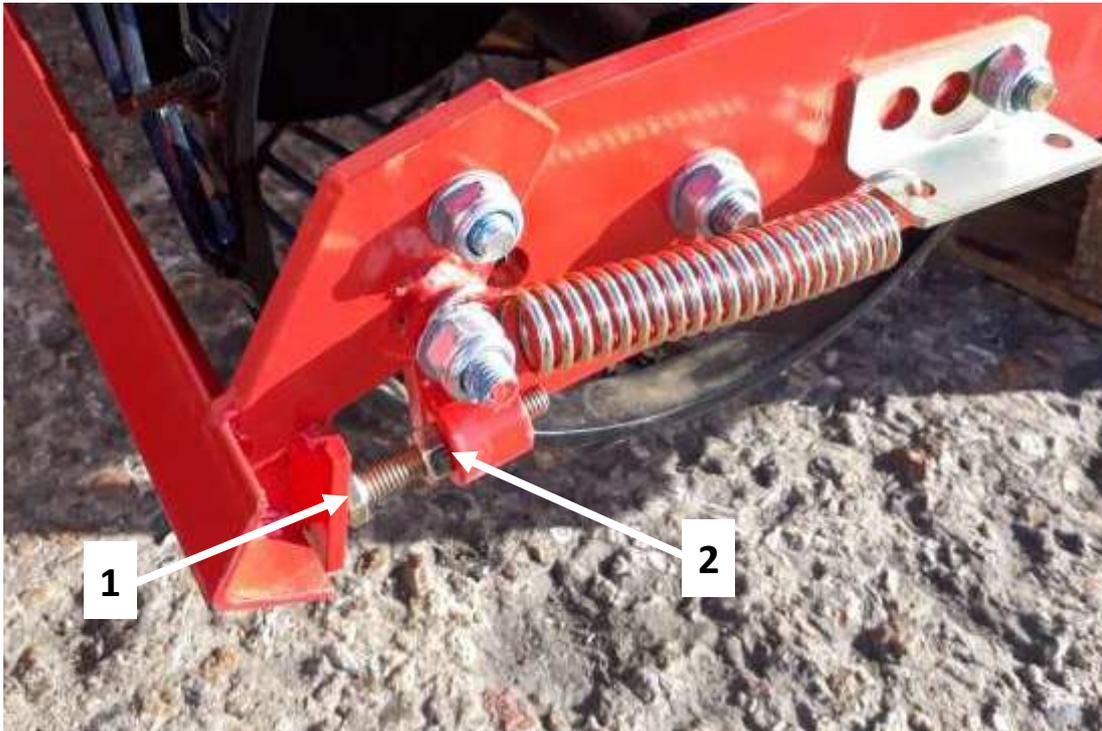


## 9. Scraper Bar Adjustment

**Safety:** Ensure tractor and machine is stationary and keys out of ignition before set-up/maintenance.

**Safety:** Always take care when handling and working near sharp blades.

The scraper bar is designed to clear any excess soil from the mesh roller. It is important to correctly adjust the scraper bar to ensure there isn't a build up of material when working.



### Roller Scraper Bar Adjustment

1. On both sides of the mesh roller bracket loosen off nuts **(2)**.
2. Then adjust bolts **(1)** as required.
3. Retighten nuts **(2)**.

Adjust both bolts and check the clearance from the scraper bar to the roller is the same at both ends to ensure the bar works efficiently. Winding the bolts in moves the scraper bar closer to the roller and outwards increases the clearance.

If you find the roller is not spinning freely where soil is building up on the roller and not being removed (usually when ground is wet or in certain soil types), then clean off the roller and wind the bolts outwards to move the scraper bar away from the roller.

## 10. Servicing & Maintenance

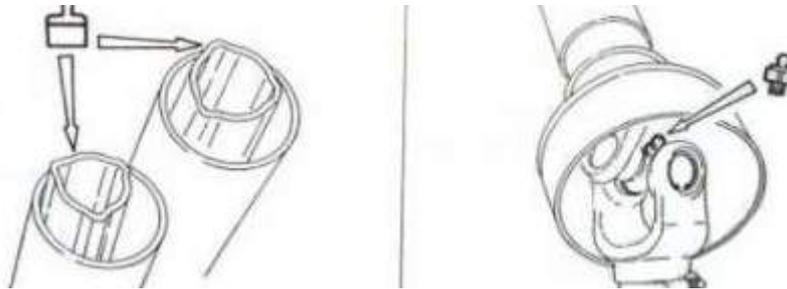
**Safety:** Store all lubricants away from excessive heat, dust, moisture and contaminants.

**Safety:** Ensure tractor and machine is stationary and keys out of ignition before set-up/maintenance.

Grease Type	Multi-purpose lithium based grease
Grease Frequency	Check every 4-8 hours (top up if required)

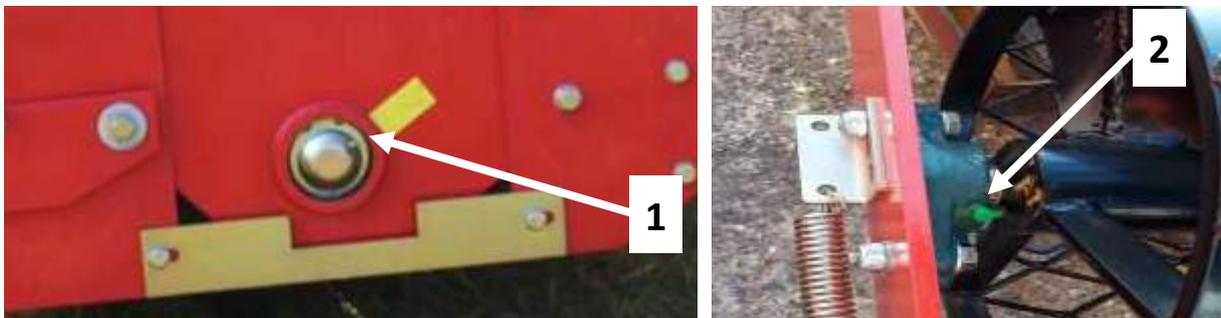
### Greasing & Lubrication Points

Wipe grease nipples with a clean cloth before greasing to avoid injecting any dirt and grit. Press grease into each grease nipple three to five times. We recommend using a hand-held grease gun for best results. If grease nipples will not take grease, remove and clean thoroughly. Also clean lubricant passageway. If you notice any grease points are broken replace or repair them immediately.



### Greasing The PTO Shaft x2

Grease both grease points on either end of the PTO shaft and apply grease to the inner shaft.



### Greasing The Blade Rotor Bearing x1

Grease the right bearing of the rotor **(1)**. The left bearing is within the chain casing reservoir and is lubricated by the oil bath. [See section on chain reservoir oil check/change].

### Greasing The Roller Bearings x2

Apply grease to both of the rear roller bearings **(2)**. There are easy to access grease points on the left and right of the roller on the inside of the bracket.

\*The periods recommended are based on normal operating conditions. Severe or unusual conditions may require more frequent maintenance.

## 10. Servicing & Maintenance (Continued)

**Safety:** Store all lubricants away from excessive heat, dust, moisture and contaminants.

**Safety:** Ensure tractor and machine is stationary and keys out of ignition before set-up/maintenance.

### Other Maintenance

**Blades:** Check condition of the blades and replace if worn/broken. Always take care when handling blades, wear gloves and use suitable tools for changing blades. Always check blade bolts are secured and blades are adjusted correctly.

**Chain Casing:** (Every 150 working hours, or once a year whichever occurs first)

Remove the chain guard, clean the chain and sprockets and put the chain guard back into position. Make sure the chain guard gasket/seal is not damaged from removal, if it does need replacing clean the metal on the body and guard, then replace with a new gasket.

**PTO Shaft:** Check the condition of your PTO shaft and replace if worn or damaged immediately.

**Cleaning:** Ensure the machine is cleaned of debris. Remove debris is from any moving parts to prevent entanglement. After use, with the PTO shaft detached, turn the shaft by hand to make sure there no obstructions.

**Bearings:** Check the bearings. If the oil seals are damaged debris may enter the bearings. Clean and replace with new bearings if necessary. Run without a load for 3-5 minutes to check bearings are operating smoothly.

**Paintwork:** Re-coat any damaged paintwork to prevent corrosion.

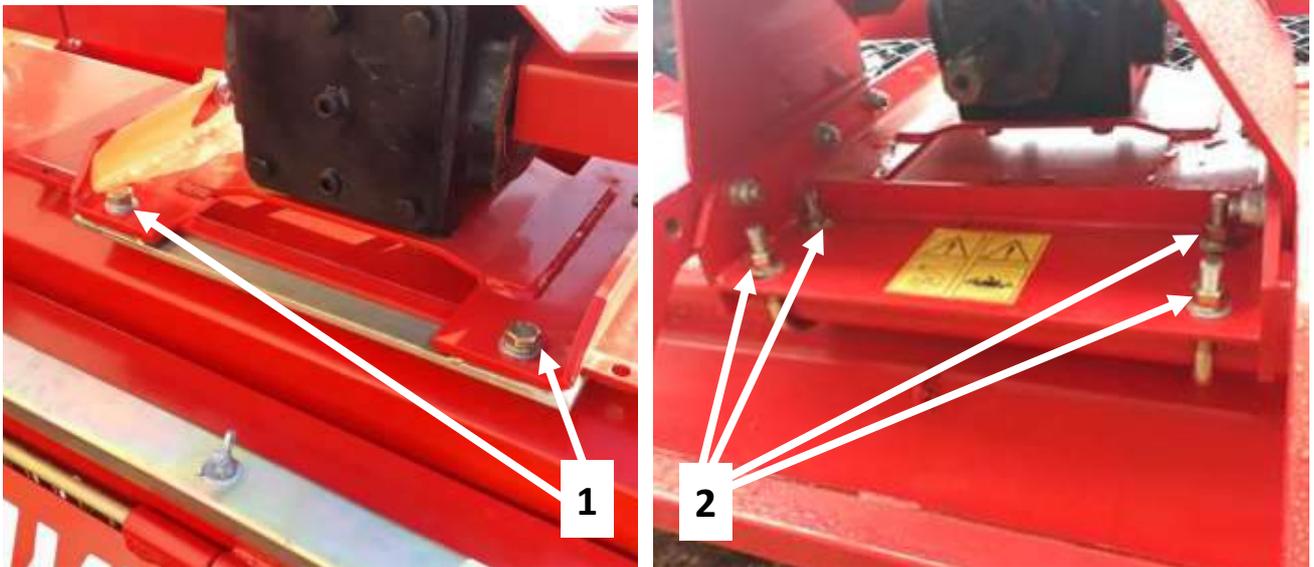
**Storage:** Store the machine in a dry, level area and ensure it is stable and unable to move or overturn. Remove dirt from blades and the roller.

**Safety Guards:** Prior to each use check the condition of the guards. Replace if damaged or worn.

\*The periods recommended are based on normal operating conditions. Severe or unusual conditions may require more frequent maintenance.

## 11. Offset/ Side-Shift

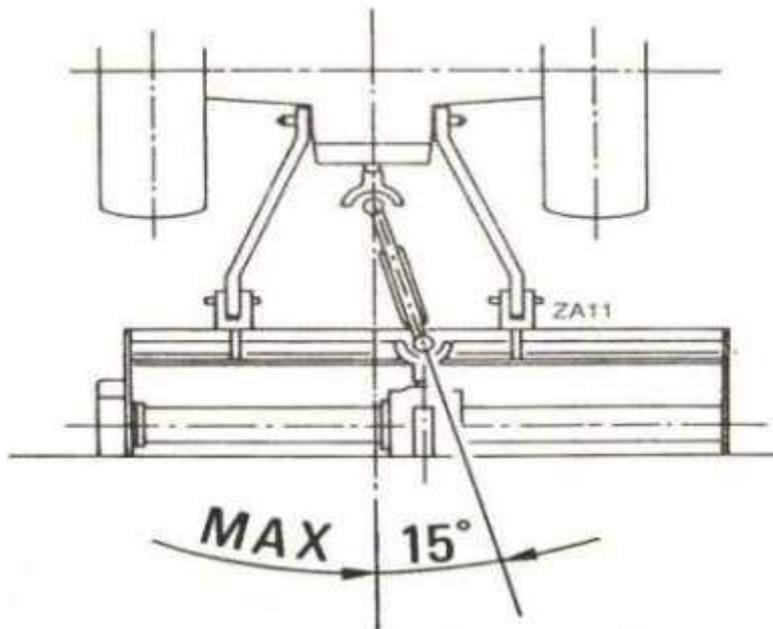
**Safety:** Ensure tractor and machine is stationary and keys out of ignition before set-up/maintenance.



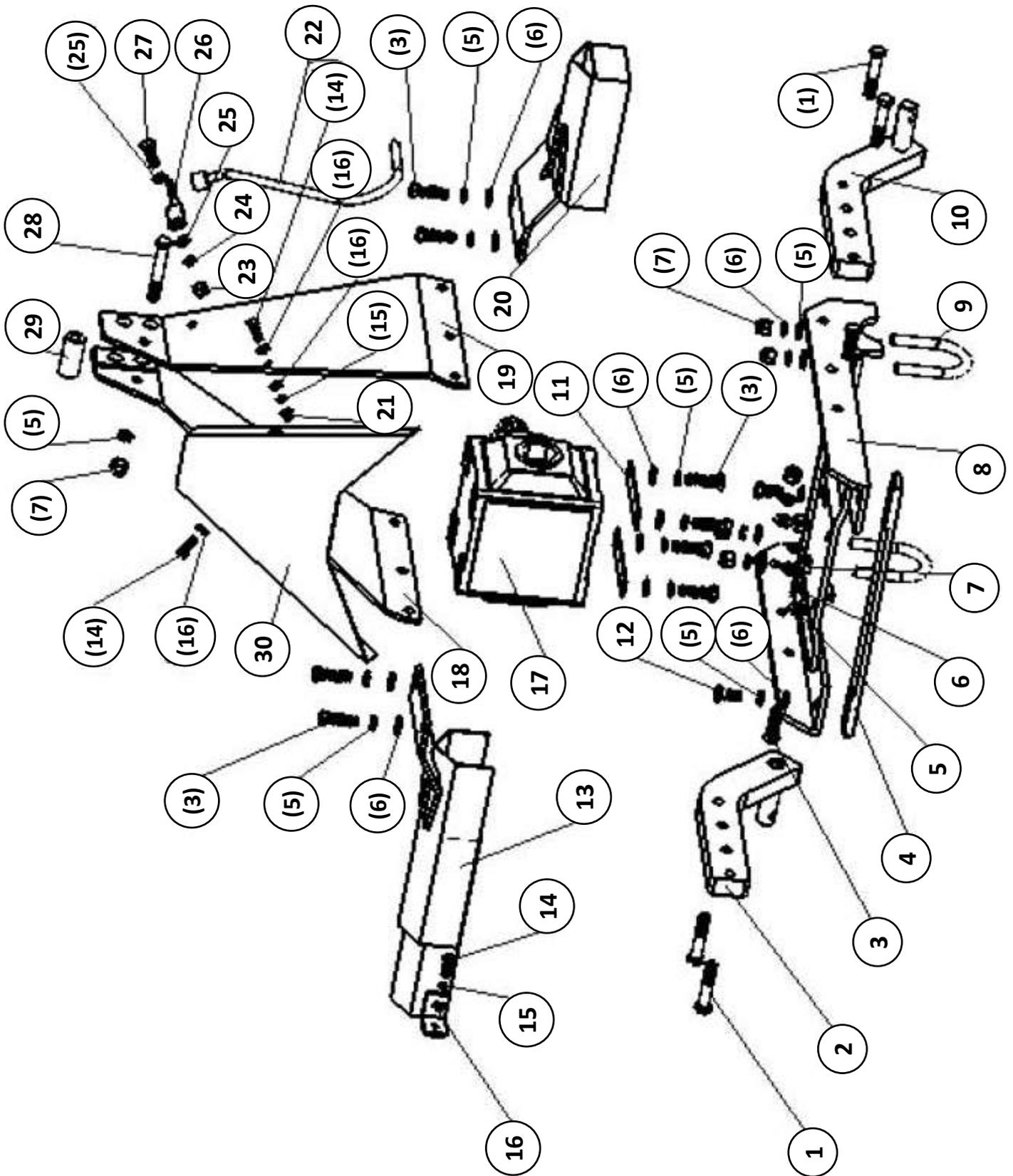
Proceed in the following way to shift the rotary tiller sideways:

- Loosen nuts **(1)** on the gearbox frame without completely unscrewing them.
- Loosen nuts **(2)** in the same manner to release the tension on the hooks.
- Manually push on the three point linkage to shift the unit to the desired position.
- Fully tighten nuts **(1 & 2)** to secure the unit.

Always ensure the PTO shaft is at a maximum angle of 15 degrees from the tractor to the machine.



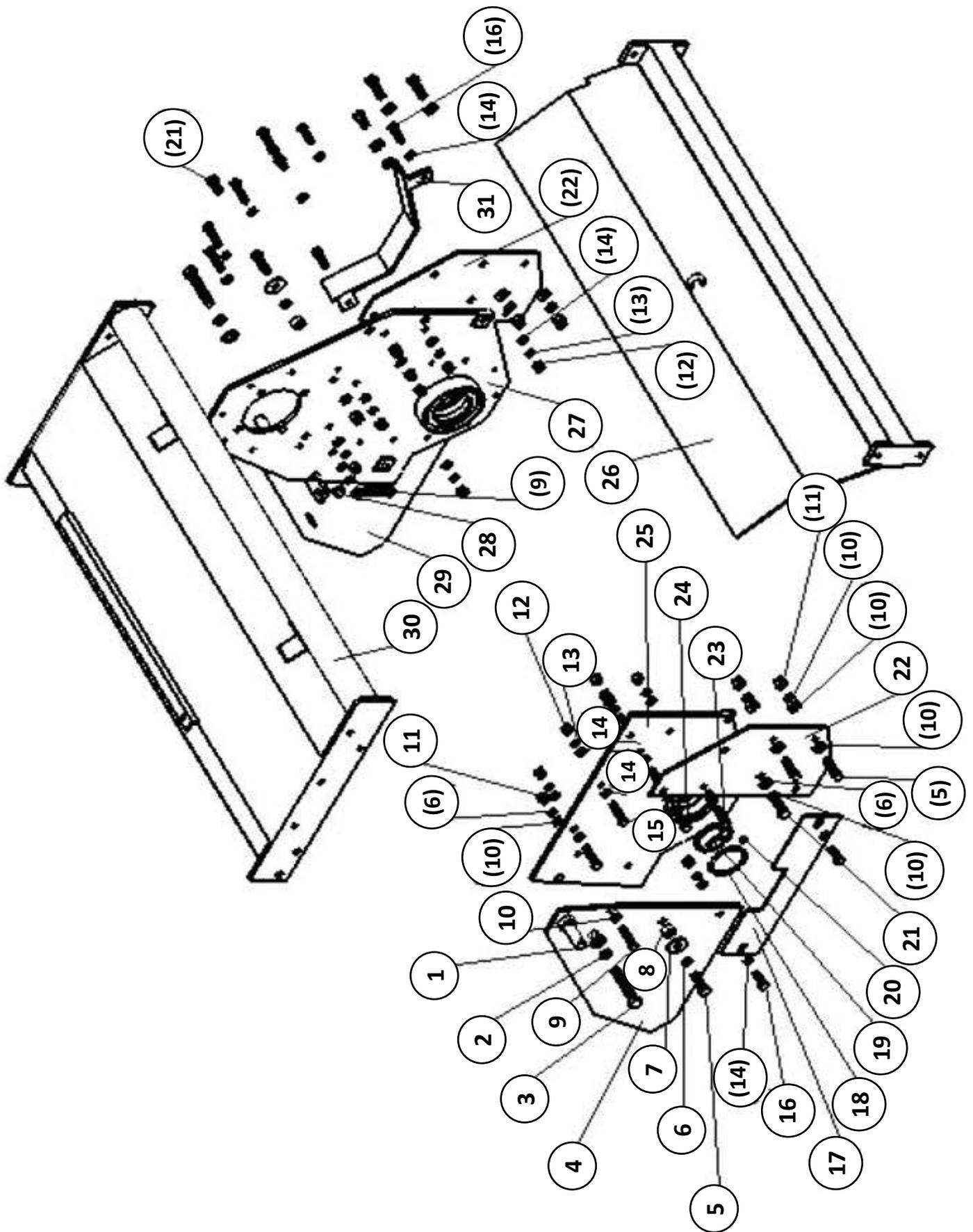
## 12. Parts Diagram 1



### 13. Parts List 1

Dia. No.	Part Number	Part Description	Qty
1	GB5782-86	Bolt M12x65	4
2	MZ105.030	Lower arm weldment (L)	1
3	GB5783-86	Bolt M12x40	2
4	MZ105.017	Connecting plate	1
5	GB97.1-85	Plain washer 12	18
6	GB93-87	Spring washer 12	19
7	GB889-86	Nut M12	11
8	MZ105.031	Frame for gear box	1
9	MZ105.103	U shaped bolt	2
10	MZ105.032	Lower arm weldment (R)	1
11	MZ105.129	Adjusting plate	2
12	GB5783-86	Bolt M12x25	2
13	MZ105.018	Flex pipe cover	1
14	GB5783-86	Bolt M8x25	2
15	GB93-87	Spring washer 8	4
16	GB97.1-85	Plain washer 8	6
<b>17</b>	<b>XH-27J 875</b>	<b>Gear box [#7 breakdown]</b>	<b>1</b>
18	MZ105.036	A-frame plate weldment (L)	1
19	MZ105.035	A-frame plate weldment (R)	1
20	MZ105.016	End sleeve weldment	1
21	GB889-86	Nut M10	2
22	MZ105.037	Hook	1
23	GB889-86	Nut M10	1
24	GB93-87	Spring washer 10	1
25	GB97.1-85	Plain washer 10	2
26	MZ105.131	Support for hook	1
27	GB5783-86	Bolt M10x30	1
28	GB5782-86	Bolt M12x85	1
29	MZ105.130	Sleeve spacer	1
30	MZ105.101	A-frame cover board	1

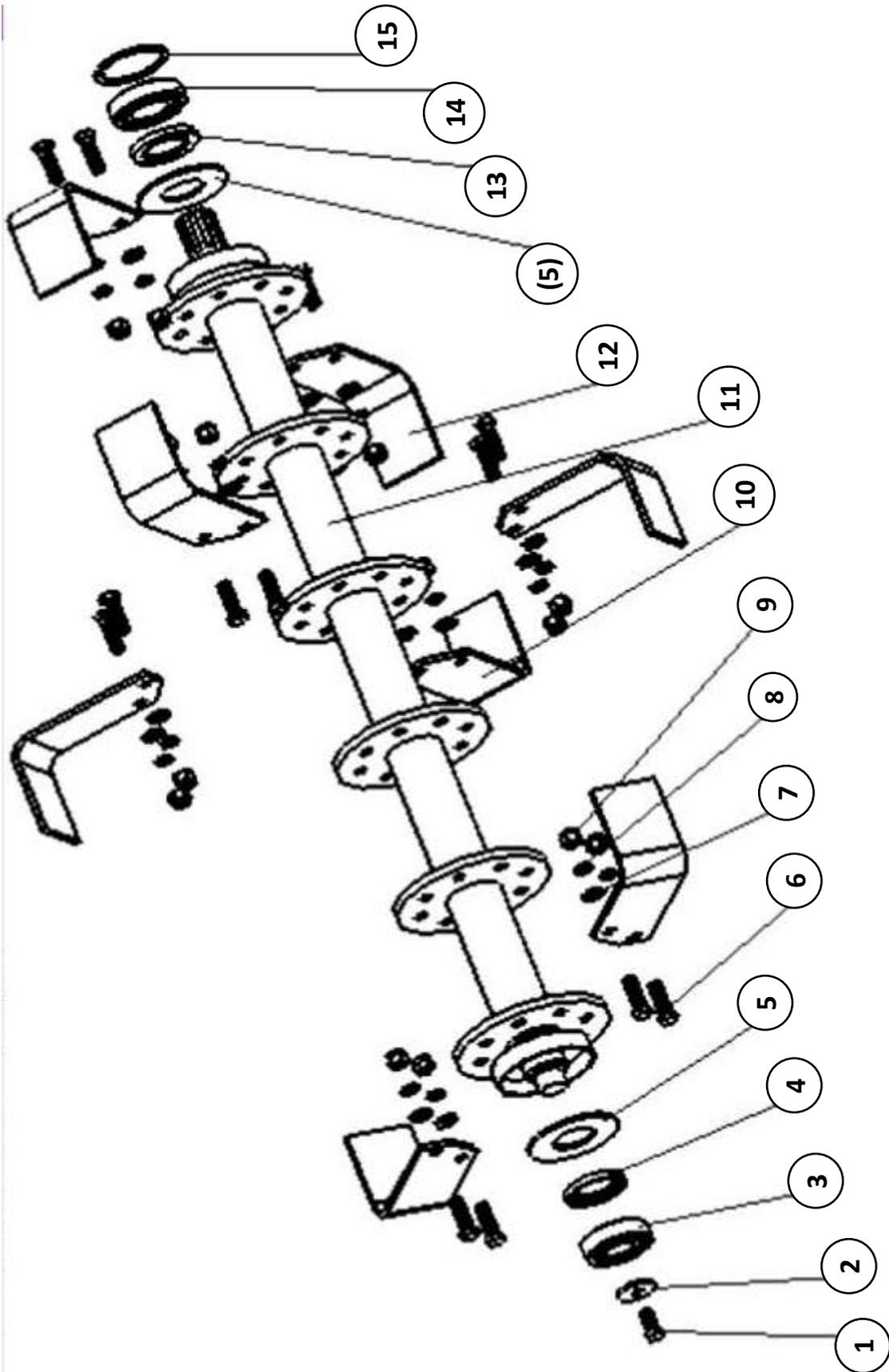
## 14. Parts Diagram 2



## 15. Parts List 2

Dia. No.	Part Number	Part Description	Qty
1	GB97.1-85	Plain washer 14	2
2	GB93-87	Spring washer 14	2
3	GB5783-86	Bolt M14x80	2
4	MZ105.014	Rear cover plate (L)	1
5	GB5783-86	Bolt M14x80	6
6	GB93-87	Spring washer 14	11
7	GB96-85	Plain washer 14	2
8	MZ105.106	Sleeve	2
9	GB5783-86	Bolt M12x50	2
10	GB97.1-85	Plain washer 12	14
11	GB889-86	Nut M12	7
12	GB889-86	Nut M10	14
13	GB93-87	Spring washer 10	14
14	GB97.1-85	Plain washer 10	28
15	GB5783-86	Bolt M10x40	6
16	GB5783-86	Bolt M10x30	4
17	MZ105.105	Lower connecting plate	1
18	GB893.1-86	Retaining ring 72	1
19	MZ105.116	Dustproof cover	1
20	GB1152-89	Grease point M6	1
21	GB5783-86	Bolt M14x80	3
22	MZ105.104	Front cover plate	2
23	GB5783-86	Bolt M14x80	2
24	GB5783-86	Bolt M14x80	2
25	MZ105.021	Bracket top weldment (L)	1
26	MZ105.011	Inner cover weldment	1
27	MZ105.033	Bracket weldment (R)	1
28	GB6170-86	Nut6 M12	2
29	MZ105.013	Rear cover plate (R)	2
30	MZ105.029	Cover board top weldment	1
31	MZ105.012	Guard skid weldment	1

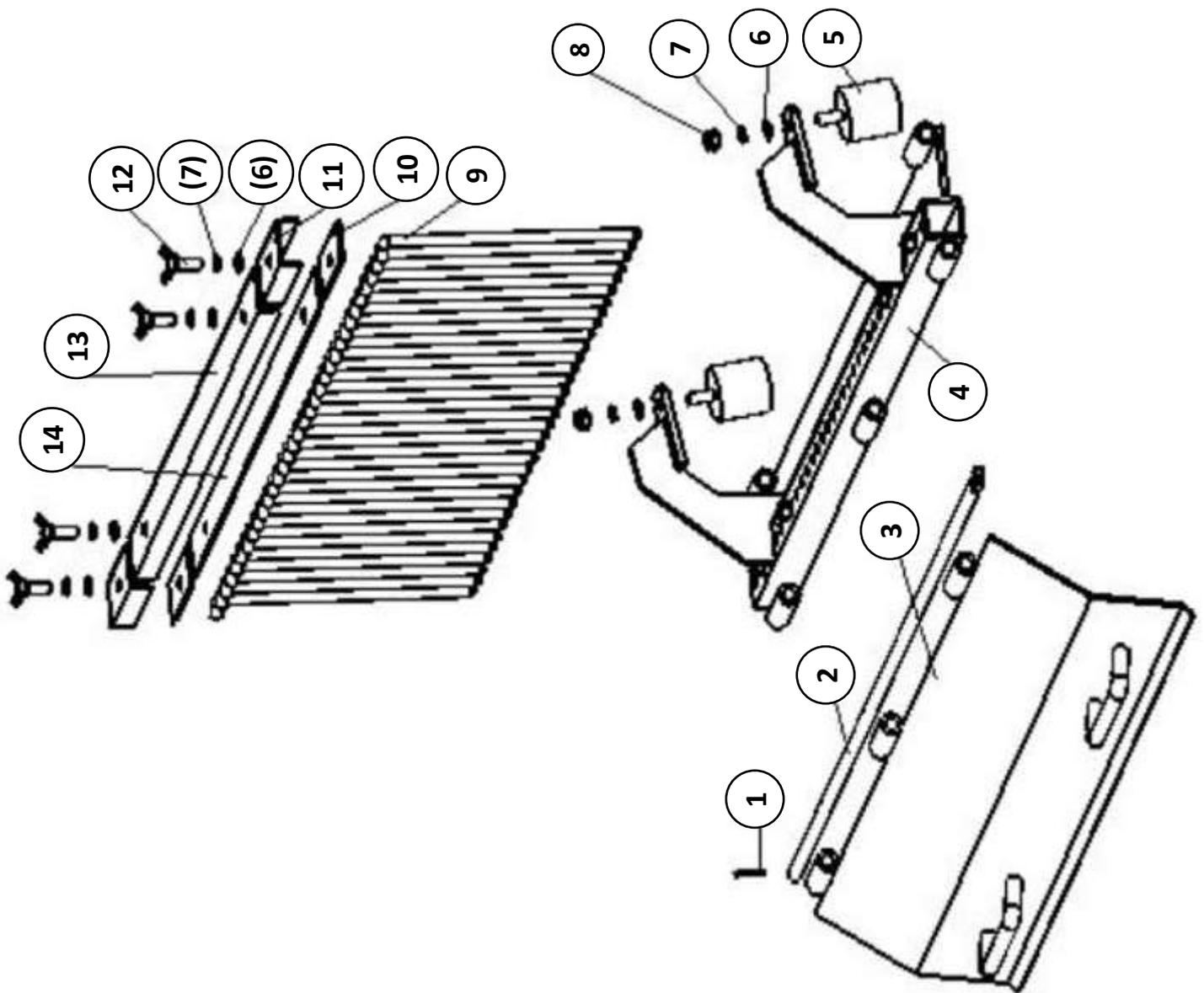
## 16. Parts Diagram 3



## 17. Parts List 3

Dia. No.	Part Number	Part Description	Qty
1	GB5783-86	Bolt M12x25	1
2	MZ105.115	Lock washer	1
3	GB276-94 6306	Bearing 6306	1
4	GB13871-92	Oil seal FB45x65x8	1
5	MZ105.118	Sealed felt ring	2
6	GB5783-86	Bolt M12x40 [105/125/145]	40/48/56
7	na		
8	GB93-87	Spring lock washer 12 [105/125/145]	40/48/56
9	GB889-86	Nut M12 [105/125/145]	40/48/56
10	MZ105.119	Right bend blade [105/125/145]	10/12/14
11	MZ105.028	Blade rotor	1
12	MZ105.120	Left bend blade [105/125/145]	10/12/14
13	GB13871-92	Oil seal FB50x72x8	1
14	GB276.94 6209	Bearing 6209	1
15	GB893.1-86	Retaining ring 85 (88mm internal)	1

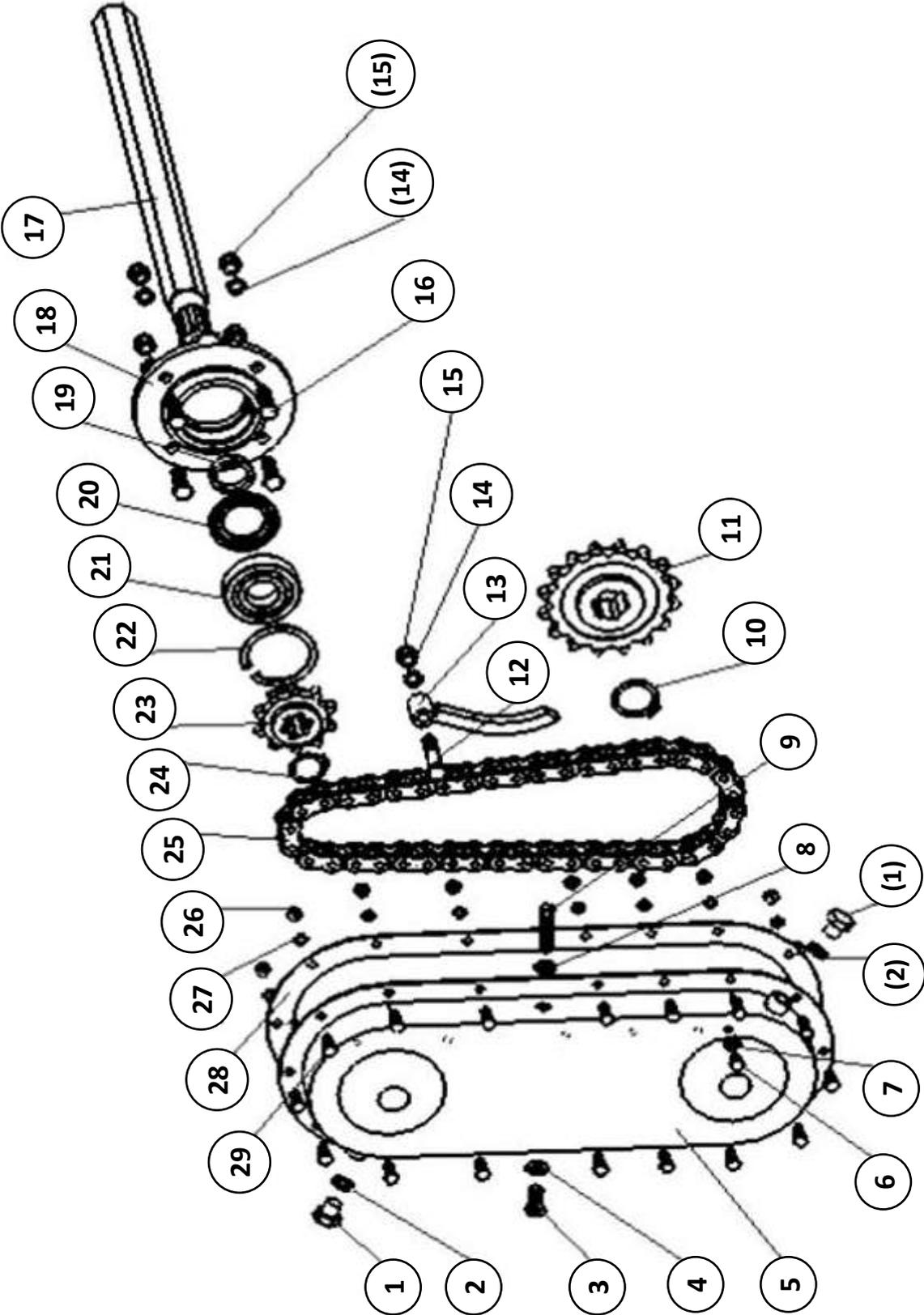
## 18. Parts Diagram 4



## 19. Parts List 4

Dia. No.	Part Number	Part Description	Qty
1	GB91-86	Split pin 2.5x20	1
2	MZ105.110	Rod for hanging rear cover	1
3	MZ105.025	Rear cover	1
4	MZ105.026	Frame for tooth	1
5	MZ105.019	Shock absorption block	2
6	GB97.1-85	Plain washer 10	6
7	GB93-87	Spring lock washer 10	6
8	GB889-86	Nut M10	2
9	MZ105.117	Tooth	33
10	MZ105.112	Short rubber pad	2
11	MZ105.108	Presse plate (short)	1
12	MZ105.107	Bolt with gripe	4
13	MZ105.109	Presse plate (long)	1
14	MZ105.111	Long rubber pad	1

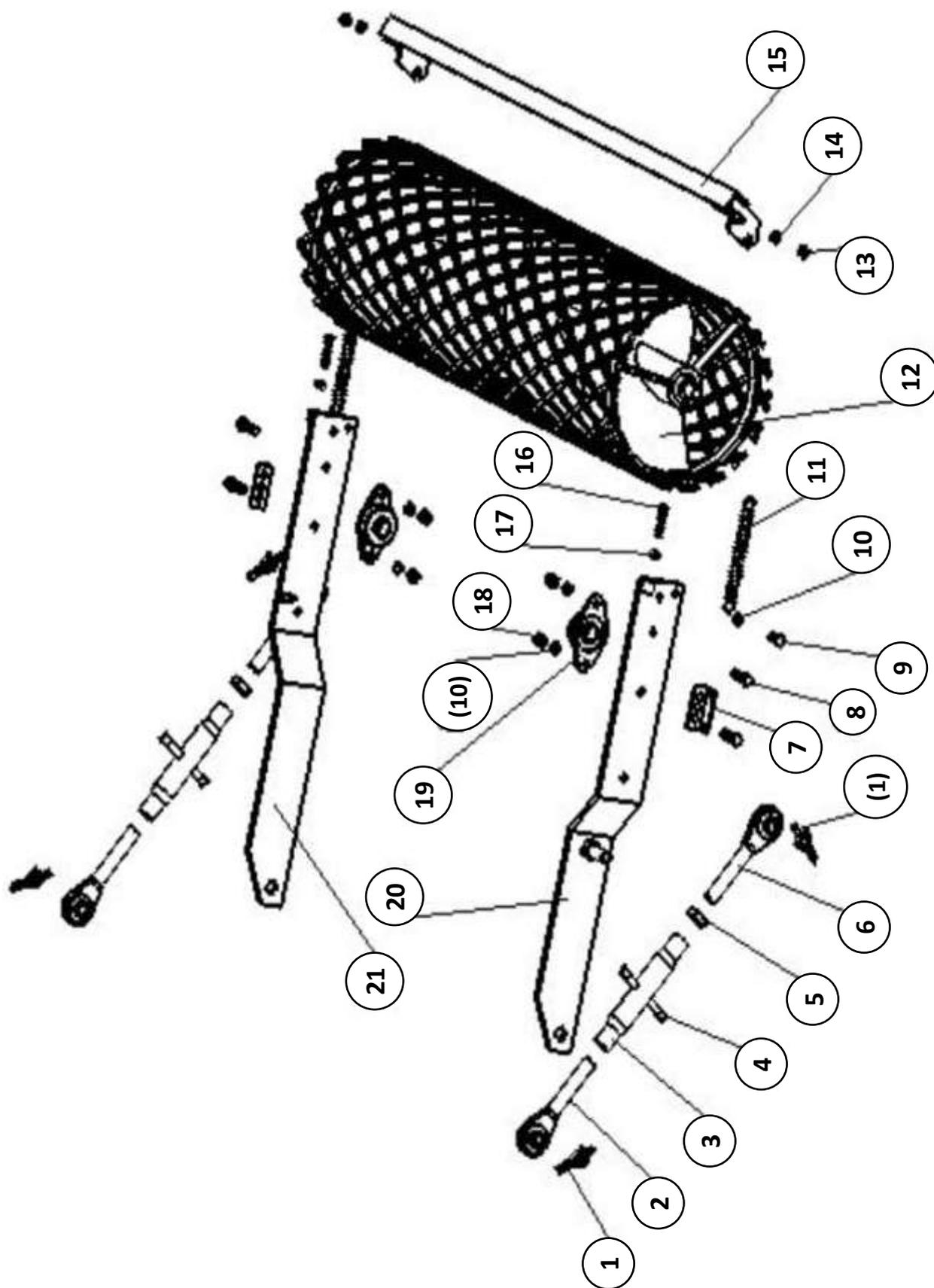
20. Parts Diagram 5



## 21. Parts List 5

Dia. No.	Part Number	Part Description	Qty
1	GB5786-86	Bolt M16x1.5x8	2
2	12.37.149	Assembled seal ring	2
3	GB5783-86	Bolt M12x25	1
4	GB97.1-85	Plain washer 12	1
5	MZ105.034	Chain guard weldment	1
6	GB5783-86	Bolt M10x20	1
7	12.37.219	Washer	1
8	GB6172-86	Nut M12	1
9	GB85-88	Locking nut M12x50	1
10	GB894.1-86	Retaining ring 42	1
11	MZ105.122	Driven chain wheel large	1
12	GB5782-86	Bolt M12x65	1
13	MZ105.027	Tension plate	1
14	GB93-87	Spring lock washer 12	5
15	GB889-86	Nut M12	5
16	GB5783-86	Bolt M12x40	4
17	MZ105.126	Transmission shaft	1
18	MZ105.128	Bearing seat	1
19	MZ105.124	Oil seal packet	1
20	GB13871-92	Oil seal FB45x72x8	1
21	GB276-94	Bearing 6307	1
22	GB893.1-86	Retaining ring 80	1
23	MZ105.127	Driving chain wheel small	1
24	GB894.1-86	Retaining ring 32	1
25	GB1243.1-83	Sleeve roller chain	1
26	GB889-86	Nut M8	16
27	GB93-87	Spring lock washer 8	16
28	MZ105.121	Cork pad	1
29	GB5783-86	Bolt M8x25	16

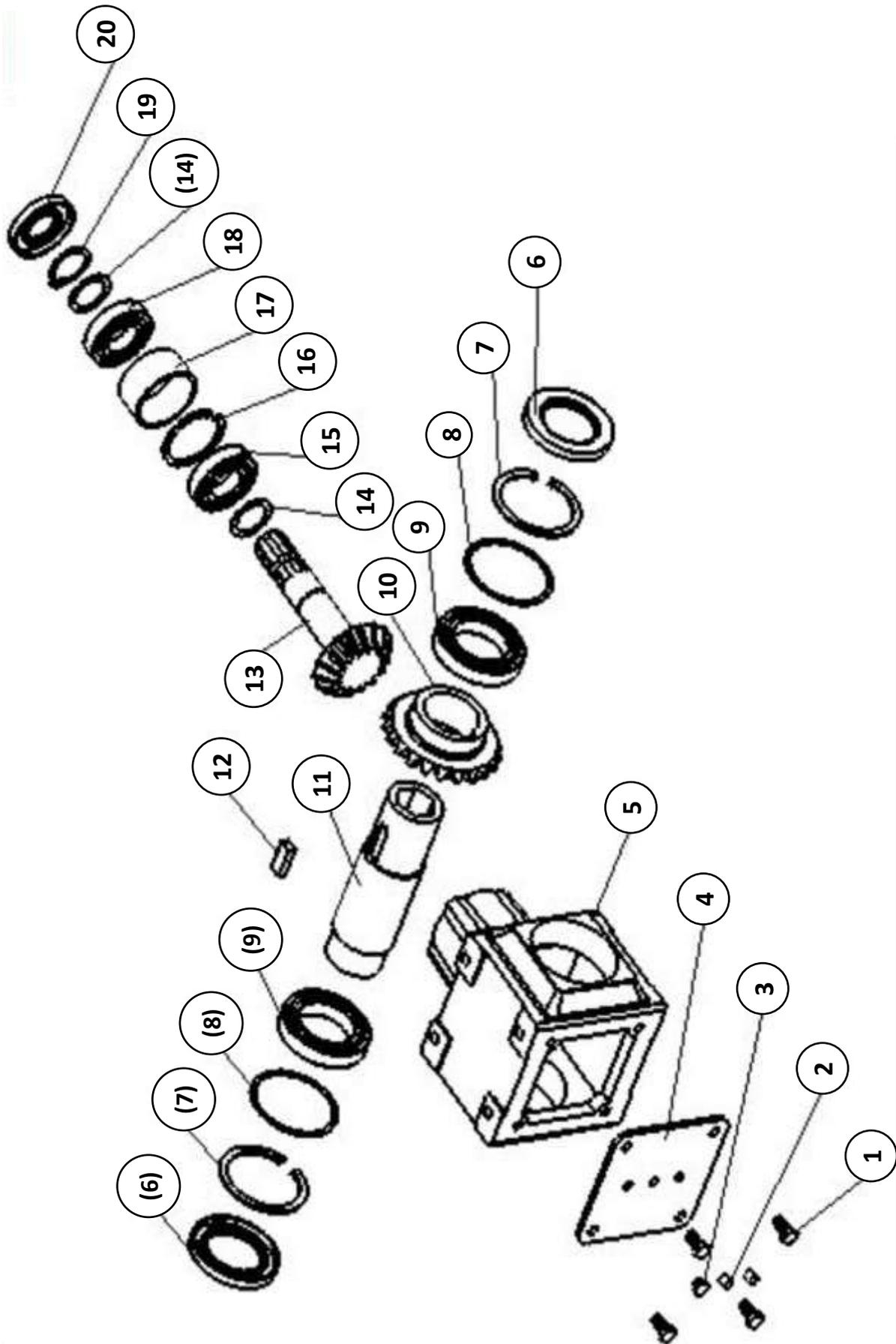
## 22. Parts Diagram 6



## 23. Parts List 6

Dia. No.	Part Number	Part Description	Qty
1	200.56.011	Lock pin	4
2	MZ105.039	Joint weldment (L)	2
3	MZ105.169	Screw tube	2
4	MZ105.170	Turn buckle	2
5	GB6172-86	Nut M22	2
6	MZ105.040	Joint weldment (R)	2
7	MZ105.113	Bracket for spring	2
8	GB5783-86	Bolt M12x45	4
9	GB5783-86	Bolt M12x25	2
10	GB93-87	Spring lock washer 12	6
11	MZ105.114	Pulling spring	2
12	MZ105.023	Roller weldment	1
13	GB889-86	Lock nut M10	2
14	GB97.1-85	Plain washer 10	2
15	MZ105.022	Scraper bar frame	1
16	GB5783-86	Bolt M12x45	2
17	GB6170-86	Nut M10	2
18	GB889-86	Lock nut M12	4
19	GB7810-87	Bearing 90205	2
20	MZ105.020	Roller bracket arm (R)	1
21	MZ105.015	Roller bracket arm (L)	1

## 24. Parts Diagram 7



## 25. Parts List 7

Dia. No.	Part Number	Part Description	Qty
1	GB5783-86	Bolt M10x20	4
2		Plug 3/8" GAS	2
3	0.107.7100.00	Vent plug	1
4	0.267.1300.00	Cover	1
5	0.267.0500.00	Case	1
6		Oil seal 60x95x10	2
7	GB893.1-86	Retaining ring for hole 95	2
8		Adjusting shim 85.3x94.7	2
9	GB/T276-94	Bearing 6012	2
10	0.267.6000.00	Bevel gear	1
11	0.267.4601.00	Output shaft	1
12	GB1096-79	Key B14x9x35	1
13	0.267.5001.00	Shaft with gear	1
14		Adjusting shim 35.3x48	2
15	GB297-84	Bearing 30207	1
16	GB893.1-84	Retaining ring for hole 72	1
17	0.267.7100.00	Sleeve	1
18	GB/T276-94	Bearing 6207	1
19	GB894.1-86	Retaining ring for shaft 35	1
20		Oil seal 35x72x10	1

## Notes

## PTO Shaft Resizing

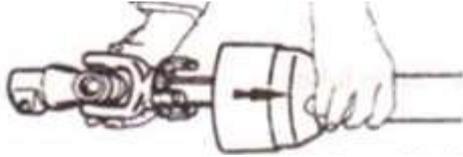
**Safety:** Ensure tractor and machine is stationary and keys out of ignition before carrying out any work.

If you are not confident in carrying out the work consult your local supplier or mechanic.

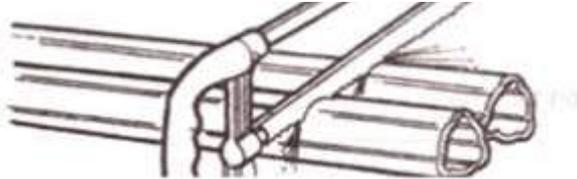
Most PTO driven implements are supplied with a standard sized PTO shaft. As all tractors vary this often means cutting it down to size. Always replace worn or damaged PTO shafts.

Attach the machine to the tractor without the PTO shaft, raise the linkage so the PTO shaft is level/horizontal. Measure the length between tractor PTO and the machine's shaft. If the compressed (closed) PTO shaft length exceeds the one measured here then the driveline will need to be cut.

1. PTO length adjustment, first remove PTO shaft shielding.



2. Shorten the driveline tubes to proper equal lengths.



3. Tidy edges of the drive tube with a file and clean all fillings from the tubes.



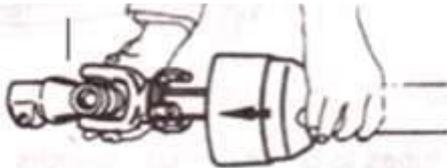
4. Shorten the equally long guard tubes to the same length as the driveline tubes.



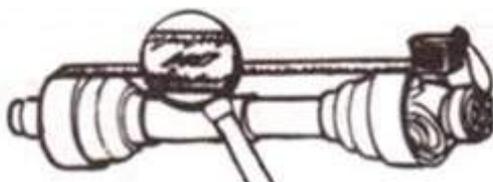
5. Grease the internal driveline tube.



6. Fit the guard on the shaft.



7. Make sure that the length allows for at least 16cm (6 inches) of overlap.



## Winton Product Warranty

We always strive to create great products, but when something does go wrong we have a strong network of resellers on hand throughout the UK to help out.

### Warranty Claims

Before you get in touch here are 5 pieces of information your Winton reseller will need to progress your claim:

- Your invoice/order details - to include date of purchase
- Machine model number
- Machine serial number
- Details of the fault
- Images/videos of the fault

### The Terms & Conditions

All products purchased as new are covered under our 12 month warranty from the date of purchase. During this period Winton will repair or replace defective parts free of charge. This warranty is given on the proviso that the product has been used and maintained according to the Owner's Manual.

Warranty is carried out on a return to reseller / manufacturer basis and excludes any labour or delivery / collection costs.

### Exclusions

- Wearing parts are excluded; including but not limited to blades, belts and bearings.
- Modification of the product in any way will cease the manufacturers warranty.
- The machine is warranted for one year to the original purchaser, resale within the period will cease the warranty.
- Damage in transit is not covered. Claims will need to be made through the courier or your Winton reseller directly.
- Compensation for down-time, labour or loss of earnings is not covered by the warranty.
- No warranty extension will be granted for replacement parts fitted.
- Damage caused by continued use of a faulty machine will not be covered.

Your **Winton** reseller will provide their own terms and conditions upon purchase, consult this for any additional queries.

## Trouble-Shooting

**Safety:** Ensure tractor and machine is stationary and keys out of ignition before set-up/maintenance.

WSB Problem	Solution
Noisy Machine	<p>Check all nuts and bolts are tightened</p> <p>Check the oil level in chain guard and top up if required</p> <p>Add grease to rotor bearing through grease point</p> <p>Run at PTO speed 540 RPM</p> <p>Tighten the drive chain</p>
Excessive Vibration	<p>Run at PTO speed 540 RPM</p> <p>Remove any foreign objects from the rotor area</p> <p>Check blades are in good condition and replace if broken</p> <p>Ensure blades are mounted correctly and bolts are tight</p> <p>Check rotor spins freely and is not warped or damaged</p>
Blades Clogged	<p>Wait until soil has dried up if wet at all</p> <p>Lower the working speed of tractor</p> <p>Cut any grass before working the ground</p>
Overheating Bearings	<p>Remove any foreign objects from the blade rotor area</p> <p>Ensure nothing is entangled in moving parts</p> <p>Run at PTO speed 540 RPM</p>
Insufficient Working Depth	<p>Lower the working speed of tractor</p> <p>Lower the gear of the tractor if struggling with engine power</p> <p>Make several runs on harder soil</p>

Always consult your **Winton** dealer if you have any questions about your machine.

## Trouble-Shooting (Continued)

**Safety:** Ensure tractor and machine is stopped & keys out of ignition before set-up/maintenance.

WSB Problem	Solution
Working Depth Uneven	Adjust the tractor linkage to level the machine Adjust the height of the rear roller
Excessively Crumbled Soil	Increase the working speed of the tractor Increase the working depth using the rear roller
Soil Insufficiently Crumbled	Lower the working speed of tractor Wait until soil has dried up if wet at all
Blade Rotor Jammed	Loosen the chain if over tightened Remove any foreign objects from the rotor area Check blades are in good condition and replace if broken Check rotor is not warped or damaged
Gearbox Getting Excessively Hot	Check oil is at the correct level and of the correct type in the gearbox and chain reservoir.

Always consult your **Winton** dealer if you have any questions about your machine.

## Notes



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[www.wintonmachinery.co.uk](http://www.wintonmachinery.co.uk)