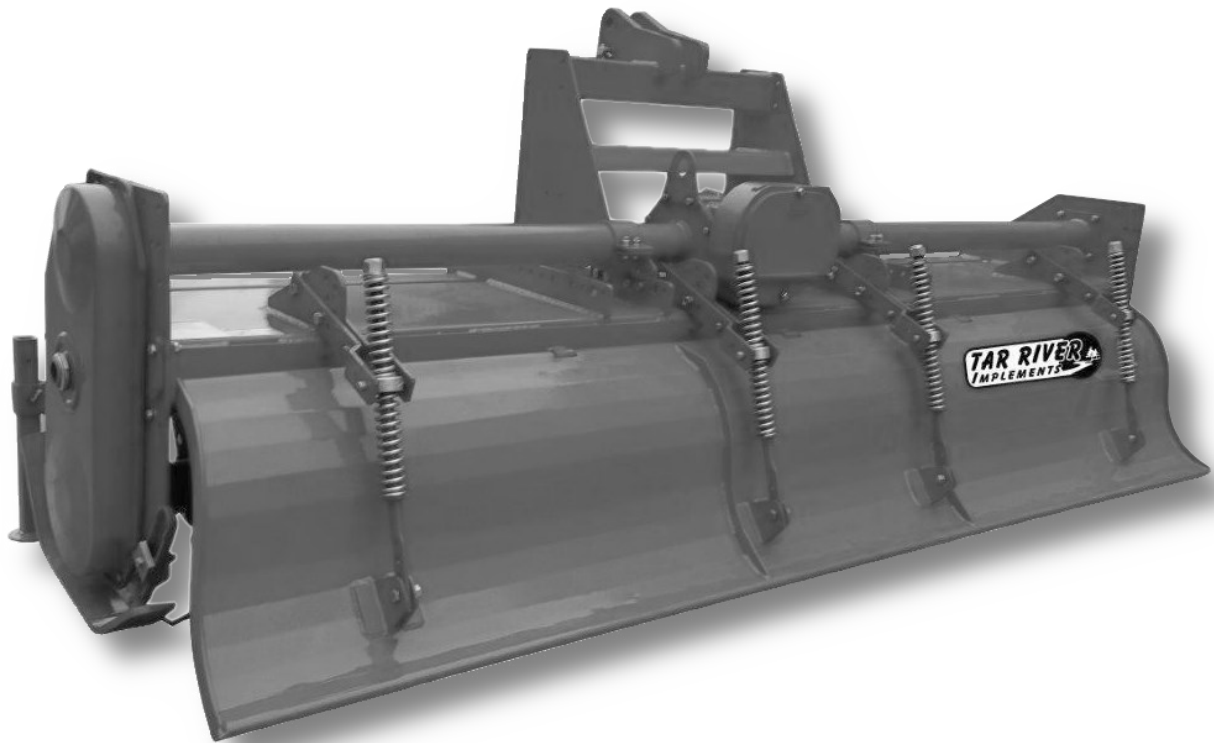




# Rotary Tiller RXT Series



## Operator's Manual

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**TO THE DEALER:**

Assembly and proper installation of this product is the responsibility of the Tar River dealer. Read manual instructions and safety rules. Make sure all items on the Dealer's Pre-Delivery and Delivery Check Lists in the Owner's/Operator's Manual are completed before releasing equipment to the owner.

**TO THE OWNER:**

Read this manual before operating your Tar River equipment. The information presented will prepare you to do a better and safer job. Keep this manual handy for ready reference. Require all operators to read this manual carefully and become acquainted with all the adjustment and operating procedures before attempting to operate. Replacement manuals can be obtained from your selling dealer. The equipment you have purchased has been carefully engineered and manufactured to provide dependable and satisfactory use. Like all mechanical products, it will require cleaning and upkeep. Lubricate the unit as specified. Observe all safety information in this manual and safety decals on the equipment. For service, your authorized Tar River dealer has trained mechanics, genuine Tar River service parts, and the necessary tools and equipment to handle all your needs. Use only genuine Tar River service parts. Substitute parts will void the warranty and may not meet standards required for safe and satisfactory operation.

Record your implement model and serial number in the space provide below. Your dealer will need this information to give you prompt, efficient service.

**Model Number:** \_\_\_\_\_

**Serial Number:** \_\_\_\_\_

**Date Purchased:** \_\_\_\_\_

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## Introduction

Thank you for purchasing your Tar River Rotary Tiller. The RXT Series is specifically designed and engineered for tractors in the 50-120 horse power range.

### Technical Specifications

- Gear drive transmission, 6 Blades per flange, PTO with slip-clutch protection, Solid A-frame, 6" Tilling depth, Powder coat paint

	<b>RXT-072</b>	<b>RXT-080</b>	<b>RXT-088</b>	<b>RXT-096</b>
Weight	945 lbs.	970 lbs.	1015 lbs.	1069 lbs.
Shipping weight	1053 lbs.	1075 lbs.	1121 lbs.	1183 lbs.
Working width	66"	73"	84"	92"
Blades per flange	6	6	6	6
HP	50-120	55-120	60-120	65-120
PTO driveline	Series 4 S/C	Series 4 S/C	Series 4 S/C	Series 4 S/C

## Important Safety Information

### Safety

It is important that you read the entire manual and to become familiar with this product before you begin using it. This product is designed for certain applications only. The manufacturer cannot be responsible for issues arising from modification. We strongly recommend this product not be modified and /or used for any application other than that for which it is designed. If you have any questions relative to a particular application, DO NOT use the product until you have first contacted us to determine if it can or should be performed on the product.

Read and understand this manual and all safety signs before operating and maintaining . Review the safety instructions and precautions annually.

### Safety Signal Words

**TAKE NOTE! This safety alert symbol found though out this manual is used to call you attention to instructions involving you personal safety and the safety of others. Failure to follow these instructions can result in injury or death.**



**This symbol means:  
Attention!  
Become alert!  
Your safety is involved!**

Note the use of the signal words, DANGER, WARNING and CAUTION with the safety messages. The appropriate signal word for each has been selected using the following guidelines:



**DANGER:** Indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury. This signal word is to be limited to the most extreme situations typically for machine components which, for functional purposes, cannot be guarded.



**WARNING:** Indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury, and includes hazards that are exposed when guards are removed. It may also be used to alert against unsafe practices.



**CAUTION:** Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

## Important Safety Information

### General Safety Guidelines

Safety of the operator is one of the main concerns in designing and developing a new piece of equipment. Designers and manufacturers build in as many safety features as possible. However, every year many accidents occur which could have been avoided by a few seconds of thought and a more careful approach to handling equipment. You, the operator, can avoid many accidents by observing the following precautions in this section. To avoid personal injury, study the following precautions and insist those working with you, or for you, follow them.

Replace any DANGER, WARNING, CAUTION or instruction safety decal that is not readable or is missing. Location of such decals are indicated in this manual. Do not attempt to operate this equipment under the influence of drugs or alcohol.

Review the safety instructions with all users annually.

This equipment is dangerous to children and persons unfamiliar with its operation. The operator should be a responsible adult familiar with farm machinery and trained in this equipment's operations. **Do not allow persons to operate or assemble this unit until they have read this manual and have developed a thorough understanding of the safety precautions and of how it works.**

To prevent injury of death, use a tractor equipped with a Roll Over Protection System (ROPS). Do not paint over, remove or deface any signs or warning decals on your equipment. Observe all safety signs and practice the instructions on them.

Never exceed the limits of a piece of machinery. If its ability to do a job, or to do so safely, is in question - **Don't try it!**



### Safety Decal Care

- Keep safety signs clean and legible at all times.
- Replace safety signs that are missing or have become illegible.
- Replaced parts that displayed a safety sign should also display the current safety sign
- Safety signs are available from your Distributor or Dealer Parts Department or the factory.

## Important Safety Information

### How to install Safety Signs:

- Be sure that the installation area is clean and dry.
- Decide on the exact position before you remove the backing paper.
- Remove the smallest portion of the split backing paper.
- Align the decal over the specified area and carefully press the small portion with the exposed sticky backing in place.
- Slowly peel back the remaining paper and carefully smooth the remaining portion of the decal in place.
- Small air pockets can be pierced with a pin and smoothed out using the piece of decal backing paper.



### Before Operation

- Carefully study and understand this manual.
- Do not wear loose-fitting clothing, which may catch in moving parts.
- Always wear protective clothing and substantial shoes.
- Assure that all tires are inflated evenly.
- Give the unit a visual inspection for any loose bolts, worn parts or cracked welds, and make necessary repairs. Follow the maintenance safety instructions included with this manual.
- Be sure that there are no tools lying on or in the equipment.
- Do not use the unit until you are sure that the area is clear, especially of children and animals.
- Don't hurry the learning process or take the unit for granted. Ease into it and become familiar with your new equipment.
- Practice operation of your equipment and its attachments. Completely familiarize yourself and other operators with its operation before using.
- Use a tractor equipped with a Roll Over Protection System (ROPS) and fasten your seat belt prior to starting engine.
- The manufacturer does not recommend usage of tractor with ROPS removed.
- Move tractor wheels to the widest recommended settings to increase stability.
- Securely attach to towing unit. Use a high strength, appropriately sized hitch pin with a mechanical retainer and attach safety chain.
- Do not allow anyone to stand between the tongue or hitch and the towing vehicle when backing up to the equipment.
- Do not use the unit until you are sure that the area is clear, especially of children and animals.



## Important Safety Information



### During Operation

- Children should not be allowed on the product.
- Clear the area of small children and bystanders before moving the feeder.
- If using a towing unit, securely attach feeder by using a hardened 3/4" pin, a metal retainer, and safety chains if required. Shift towing unit to a lower gear before going down steep downgrades, thus using the engine as a retarding force. Keep towing vehicle in gear at all times. Slow down for corners and rough terrain.
- Make sure you are in compliance with all local and state regulations regarding transporting equipment on public roads and highways. Lights and slow moving signs must be clean and visible by overtaking or oncoming traffic when feeder is transported.
- Beware of bystanders, **particularly children!** Always look around to make sure that it is safe to start the engine of the towing vehicle or move the unit. This is particularly important with higher noise levels and quiet cabs, as you may not hear people shouting.
- **NO PASSENGERS ALLOWED!** Do not carry passengers anywhere on, or in, the tractor or equipment, except as required for operation.
- Keep hands and clothing clear of moving parts.
- Do not clean, lubricate or adjust your equipment while it is moving.
- When halting operation, even periodically, set the tractor or towing vehicle brakes, disengage the PTO, shut off the engine and **remove the ignition key.**
- Be especially observant of the operating area and terrain. Watch for holes, rocks or hidden hazards. Always inspect the area prior to operation.
- **DO NOT** operate near the edge of drop-offs or banks.
- **DO NOT** operate on steep slopes as overturns may result.
- Operate up and down (not across) intermediate slopes. Avoid sudden starts and stops.

## Important Safety Information



### Highway and Transport Operations

- Adopt safe driving practices.
- Keep the brake pedals latched together at all times. **Never use independent braking with machine in tow as loss of control and/or upset of unit can result.**
- Always drive at a safe speed relative to local conditions and ensure that your speed is low enough for an emergency stop to be safe and secure. Keep speed at a minimum.
- Reduce speed prior to turns to avoid the risk of overturning.
- Avoid sudden uphill turns on steep slopes.
- Always keep the tractor or towing vehicle in gear to provide engine braking when going downhill. Do not coast.
- Do not drink and drive!
- Comply with state and local laws governing highway safety and movement of farm machinery on public roads.
- Use approved accessory lighting flags and necessary warning devices to protect operators of other vehicles on the highway during daylight and nighttime transport. Various safety lights and devices are available from your dealer.
- The use of flashing amber lights is acceptable in most localities. However, some localities prohibit their use. Local laws should be checked for all highway and marking requirements.
- When driving the tractor and equipment on the road or highway under 40 kph (20 mph) at night or during the day, use the amber warning lights and a slow moving vehicle (SMV) identification emblem.
- Plan your route to avoid heavy traffic.
- Be a safe and courteous driver. Always yield to oncoming traffic in all situations, including narrow bridges, intersections, etc.
- Be observant of bridge loading ratings. Do not cross bridges rated at lower than the gross weight at which you are operating.
- Watch for obstructions overhead and to the side while transporting.
- Always operate in a position to provide maximum visibility at all times. Make allowances for increased length and weight of the equipment when making turns, stopping the unit, etc.
- Pick the most level route when transporting across fields. Avoid the edges of ditches or gullies and steep hillsides.
- Be extra careful when working in inclines.

## Important Safety Information



### Highway and Transport Operations

- Maneuver the tractor or towing vehicle at safe speeds.
- Avoid overhead wires or other obstacles. Contact with overhead lines could cause serious injury or death.
- Avoid loose fill, rocks and holes, they can be dangerous for equipment operation or movement.
- Allow for unit length when making turns,
- Operate the towing vehicle from the operator's seat only.
- Never stand alongside of unit with engine running or attempt to start engine and/or operate machine while standing alongside of unit.
- Never leave running equipment attachments unattended.
- As a precaution, always recheck the hardware on equipment following every 100 hours of operation. Correct all problems. Follow the maintenance safety procedures.

## Operating Instructions



**Before attaching the rotary tiller to the tractor, check the unit to ensure there is oil in the top and side gearbox. See Maintenance section for lubricant specifications.**

Note: Gearboxes are shipped with high performance gear grease, add indicated lubricants to specified levels. It is okay to use variable viscosity gear oils.

### Oil Level:

- Center Gearbox: Level indicated on dipstick (SAE 90)  
 Side gearbox drive: Fill to oil drain plug on lower front of cover (SAE 140)  
 Right rotor bearing: Grease if cap has grease nipple. Otherwise fill to side drain plug. (SAE 90 or SAE 140)
- Grease: PTO shaft cross and bearings



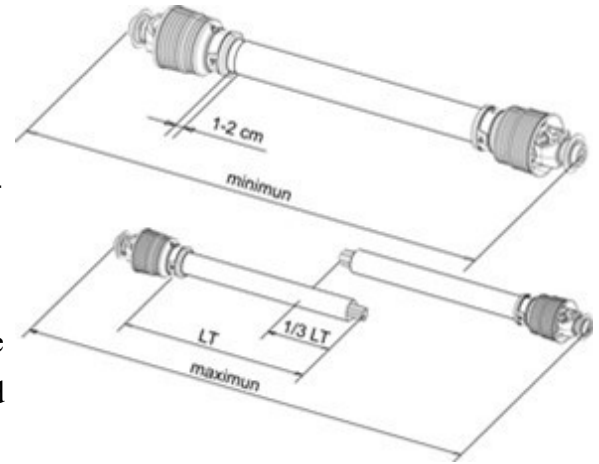
### Attaching to the tractor

1. With the Rotary Tiller on a level surface, back the Cat. 1 tractor so the tractor lift arms are even with the unit's lower hitch pins. Lower or raise the tractor hitch arms until the 7/8" bushing in the arm is inside the clevis of lower hitch points. Be sure nothing is between the tractor and the tiller before backing up.
2. Insert the lower hitch pin through the lower hitch blocks and the tractor arm. The YCT series tillers have adjustable lower hitch blocks that can be slide to facilitate usage on larger tractors.
3. Secure the lift arm in place by using a 7/16" lynch pin or other fastener.
4. Repeat with the other arm.
5. Connect the driveline to the tractor's PTO output shaft. Secure it in place.
6. Connect the tractor top link to the upper hitch point of the rotary tiller.
7. Start the tractor and slowly raise the tiller. Check for drawbar interference. Be sure that the PTO driveline does not bottom out when lifting the machine to it's maximum height. If it does appear that it could bottom out, it is necessary to shorten the PTO driveline. (See Shortening a PTO Driveline section). Ensure that in the working position there is an overlap of a minimum of 1/3 the length of each profile.

## Operating Instructions

### Shortening a PTO Driveline

1. With the implement attached to the tractor's three point hitch, and the PTO driveline not installed, separate the PTO driveline. Attach the implement end to the implement and the other end to the tractor PTO input shaft.
2. Raise the implement by using the tractor's hydraulic 3-point hitch to its maximum lift height.
3. Hold the half shafts next to each other and mark them so each end is approximately 1/2" from hitting the end of the telescopic profiles.
4. Shorten the inner and out guard tubes equally.
5. Shorten the inner and outer profiles by the same length as the guard tubes. Using a rat tail file, round off all sharp edges and burrs. Grease the telescopic profile generously before reassembling.



**Do not shorten too much, the proper overlap is a minimum of 1/3 the length of each profile.**

**Caution: Slip Clutches may become hot. Do Not Touch. Keep the slip clutch area clear of a material that may catch fire. Slip clutches have adjustable torque settings. The torque setting varies with the different compression of each spring. All the springs should have an equal amount of compression.**

**Important: Do not over-tighten the compression nuts as this may impair performance or cause premature wearing of the slip clutch.**

### Slip clutch adjustments

Slip clutch must be adjusted before first use or after a storage period.

1. Using a marker, scribe a line across the exposed edges of the clutch plate and friction discs.
2. Back off compression nuts to free friction discs by turning each nut *exactly* 2 revolutions.
3. Start the tractor and run the driveline at a low idle to slip the friction discs. This will remove the dirt, corrosion and surface floss from the clutch plate faces.
4. Disengage PTO, shut down tractor and wait for all components to come to a complete stop.
5. Inspect the clutch and ensure that the scribed markings on the disc and plates have changed position. If any two marks are still aligned, this is an indication that these discs have not slipped. It may be necessary to completely disassemble the clutch to free them up.
6. After ensuring all discs are free, tighten the compression nuts, uniformly, *exactly* 2 revolutions to reset the clutch original pressure.

# Operating Instructions

## Working Depth Adjustment

The working depth is controlled by raising or lowering the side skids. If the skids are raised, the working depth increases. By lowering the skids, the tilling depth will decrease.

## Tailgate adjustment

Position the tailgate to its desired opening by fitting the bolts into the appropriate holes of the adjustment flange located on the top of the main frame. To adjust the degree of tension, tighten or loosen up on the 24mm nut on the top of the spring support rod.

## Multi-Speed Gearbox

On certain models, the tiller will come standard with a multi-speed gearbox to allow rotor speed changes. This is particularly useful on uneven ground so as the tractor speed can maintain a constant ground speed and rotor speed to adapt to different soil conditions.

### To change the rotor speed, do the following:

1. Ensure the gearbox is not too hot to work safely without burning your hands.
2. Tilt the tiller forward to prevent excessive oil from coming out of the back cover.
3. Unscrew the bolt holding the rear cover of the gearbox.
4. Adjust the gears inside the gearbox to obtain the desired speed.
5. Replace cover and tighten bolts.

**IMPORTANT: Make sure the spacers located behind the gears do not fall into the gearbox! If this happens damage to the gearbox or gears can occur.**

## Operating Instructions

### Start up

After making the necessary adjustments, lower the rotary tiller until the blades are a couple of inches from the ground. Engage the PTO and slowly lower the tiller to begin working.

### Removal and Storage

1. After finishing, remove the rotary tiller from the tractor.
  2. Put the PTO driveline in a safe location so it will not become damaged.
  3. Clean and dry the equipment.
  4. Replace any damaged or worn parts.
  5. Check all bolts and nuts for tightness.
  6. Lubricate and protect the machine from the elements.
- Following operation, or when unhitching, stop the tractor or towing vehicle, set the brakes,



### Following Operation

disengage the PTO and all power drives, shut off the engine and **remove the ignition keys.**

- Store the unit in an area away from human activity.
- Do not park equipment where it will be exposed to livestock for long periods of time.  
Damage and livestock injury could result.
- Do not permit children to play on or around the stored unit.
- Make sure all parked machines are on a hard, level surface and engage all safety devices.
- Wheel chocks may be needed to prevent unit from rolling.

## Operating Instructions



### Performing Maintenance

- Good maintenance is your responsibility. Poor maintenance is an invitation to trouble.
- Make sure there is plenty of ventilation. Never operate the engine of the towing vehicle in a closed building. The exhaust fumes may cause asphyxiation.
- Be certain all moving parts on attachments have come to a complete stop before attempting to perform maintenance.
- Always use the proper tools or equipment for the job at hand.
- Use extreme caution when making adjustments.
- Never replace hex bolts with less than grade five bolts unless otherwise specified.
- After servicing, be sure all tools, parts and service equipment are removed.
- Where replacement parts are necessary for periodic maintenance and servicing, genuine factory replacement parts must be used to restore your equipment to original specifications. The manufacturer will not claim responsibility for use of unapproved parts and/or accessories and other damages as a result of their use.
- If equipment has been altered in any way from original design, the manufacturer does not accept any liability for injury or warranty.

### Maintenance Schedule

<b>8 hours</b>	Grease the Rotor support ( <b>GP grease</b> )
	Grease PTO shaft cross & bearings ( <b>GP grease</b> )
	Check Hardware for tightness
<b>16 hours</b>	Check oil level in center gearbox ( <b>90wt</b> )
	Check oil level in side gearbox ( <b>140wt</b> )
	Check Hardware for tightness
<b>200 hours</b>	Replace oil in center gearbox ( <b>90wt</b> )
	Replace oil in side gearbox ( <b>140wt</b> )
	Check Hardware for tightness

### Replacing Blades

In order for the tiller to perform optimally, make sure the tiller blades are in good working condition and their bolts and nuts tight. Always replace the blades with the bolt head against the blade and the washer and nut on the flange side to help prevent the blades from loosening. When several blades are to be replaced, replace them one blade at a time in order to maintain the scroll pattern on the rotor.

Note: To determine Left or Right Blades, hold the blade by the bolt hole end and the cutting edge facing downward. If the blade curves to the left it is a left-hand blade, curving to the right indicates a right-hand blade.



# Torque Specifications

Torque Specifications for Common Bolt Sizes															
Inches		Bolt Head Identification						Metric		Bolt Head Identification					
										5.8		8.8		10.9	
Bolt size (inches)	Thread pitch	Grade 2		Grade 5		Grade 8		Class 5.8		Class 8.8		Class 10.9			
		N.m	ft-lb	N.m	ft-lb	N.m	ft-lb	N.m	ft-lb	N.m	ft-lb	N.m	ft-lb		
1/4"	20	7	5	11	8	16	12	M5	0.08	4	3	6	4	9	7
1/4"	28	8	6	13	10	19	14	M6	1	6	4	10	7	15	11
5/16"	18	15	11	24	17	33	25	M8	1.25	16	12	25	18	36	27
5/16"	24	17	13	26	19	37	27	M8	1	17	13	26	19	38	28
3/8"	16	27	20	42	31	59	44	M10	1.5	31	23	48	35	71	52
3/8"	24	31	23	47	35	67	49	M10	1.25	33	24	51	38	75	55
7/16"	14	43	32	67	49	95	70	M10	1	35	26	53	39	78	58
7/16"	20	48	36	75	55	106	78	M12	1.75	54	40	84	62	123	91
1/2"	13	66	48	102	75	144	106	M12	1.5	56	41	87	64	128	94
1/2"	20	75	55	115	85	163	120	M12	1.25	59	44	90	66	133	98
9/16"	12	95	70	147	109	208	154	M14	2	84	62	133	98	195	144
9/16"	18	106	79	164	121	232	171	M14	1.5	94	69	142	105	209	154
5/8"	11	132	97	203	150	287	212	M16	2	131	97	206	152	302	223
5/8"	18	149	110	230	170	325	240	M16	1.5	141	104	218	161	320	236
3/4"	10	233	172	361	266	509	376	M18	2.5	181	133	295	218	421	310
3/4"	16	261	192	403	297	569	420	M18	2	196	145	311	229	443	327
7/8"	9	226	167	582	430	822	606	M18	1.5	203	150	327	241	465	343
7/8"	14	249	184	642	473	906	668	M20	2.5	256	189	415	306	592	437
1"	8	339	250	873	644	1232	909	M20	1.5	288	212	454	335	646	476
1"	12	371	273	955	704	1348	995	M22	2.5	344	254	567	418	807	595
1-1/8"	7	480	354	1077	794	1746	1288	M22	1.5	381	281	613	452	873	644
1-1/8"	12	539	397	1208	891	1958	1445	M24	3	444	327	714	526	1017	750
1-1/4"	7	677	500	1519	1120	2463	1817	M24	2	488	360	769	567	1095	808
1-1/4"	12	750	553	1682	1241	2728	2012	M27	3	656	484	1050	774	1496	1103
1-3/8"	6	888	655	1992	1469	3230	2382	M27	2	719	530	1119	825	1594	1176
1-3/8"	12	1011	746	2268	1673	3677	2712	M30	3.5	906	668	1420	1047	2033	1499
1-1/2"	6	1179	869	2643	1949	4286	3161	M30	2	1000	738	1600	1180	2250	1659
1-1/2"	12	1326	978	2974	2194	4823	3557	M36	4	1534	1131	2482	1830	3535	2607

**Notes:**

This chart is an approximate estimate of torque values.

Always tighten hardware to these values unless a different torque value or tightening procedure is listed for a specific application.

Fasteners must always be replaced with the same grade as specified in the manual.

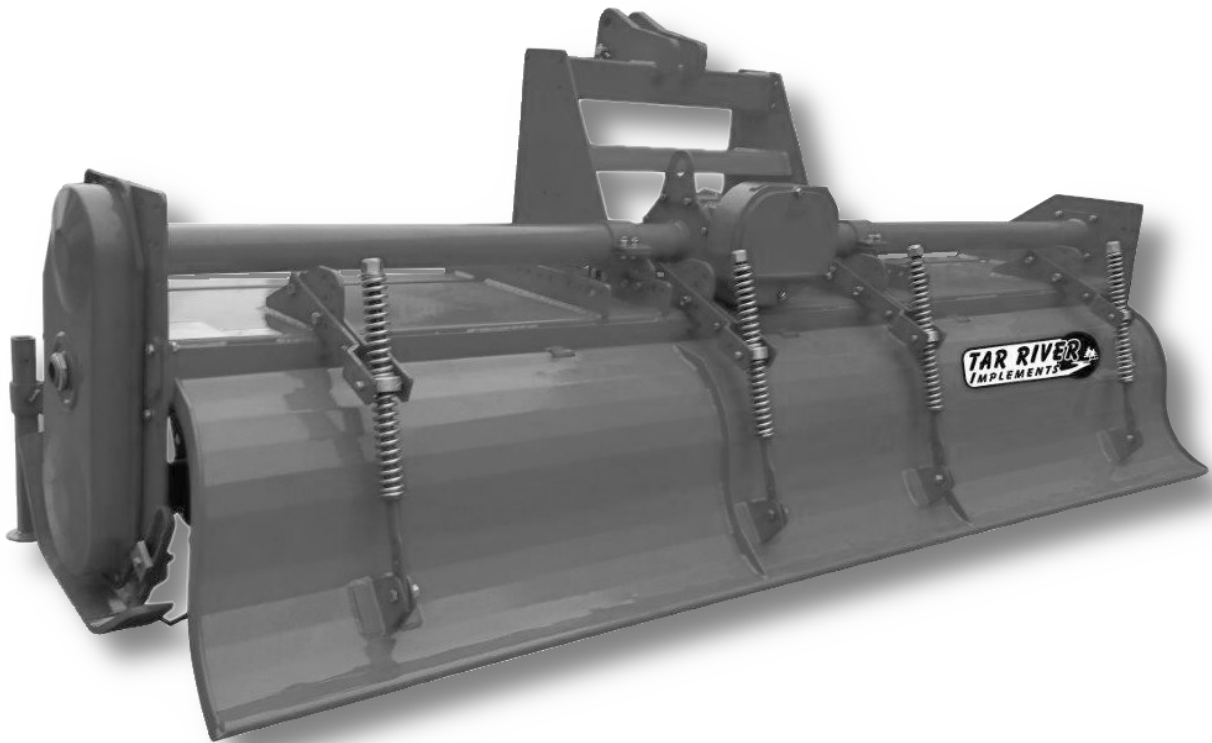
Always use the proper tool for tightening hardware: SAE for SAE hardware and Metric for Metric hardware.

Make sure that fastener threads are clean and that you properly start thread engagement.

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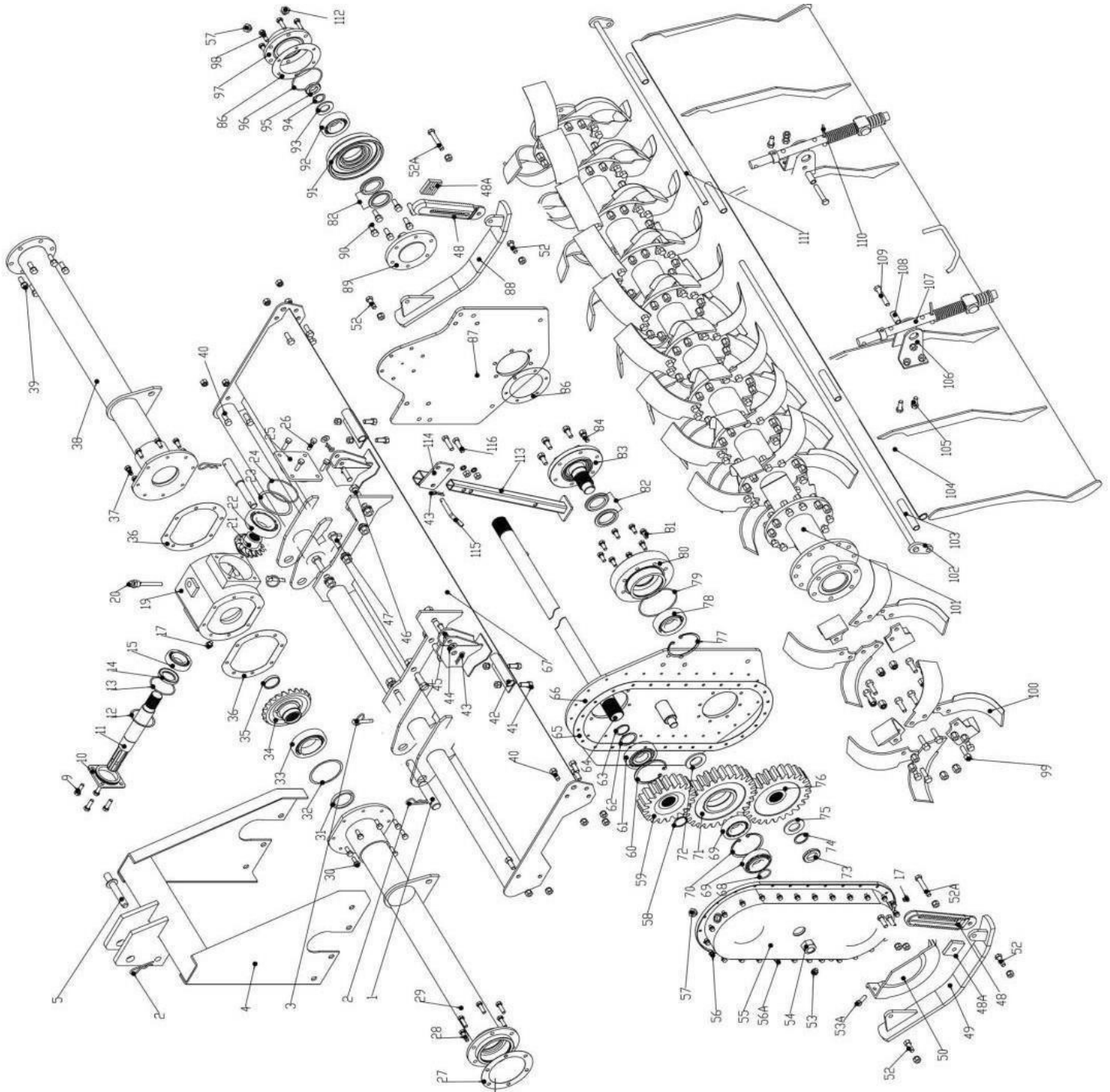


# Rotary Tiller RXT Series



## Parts Manual

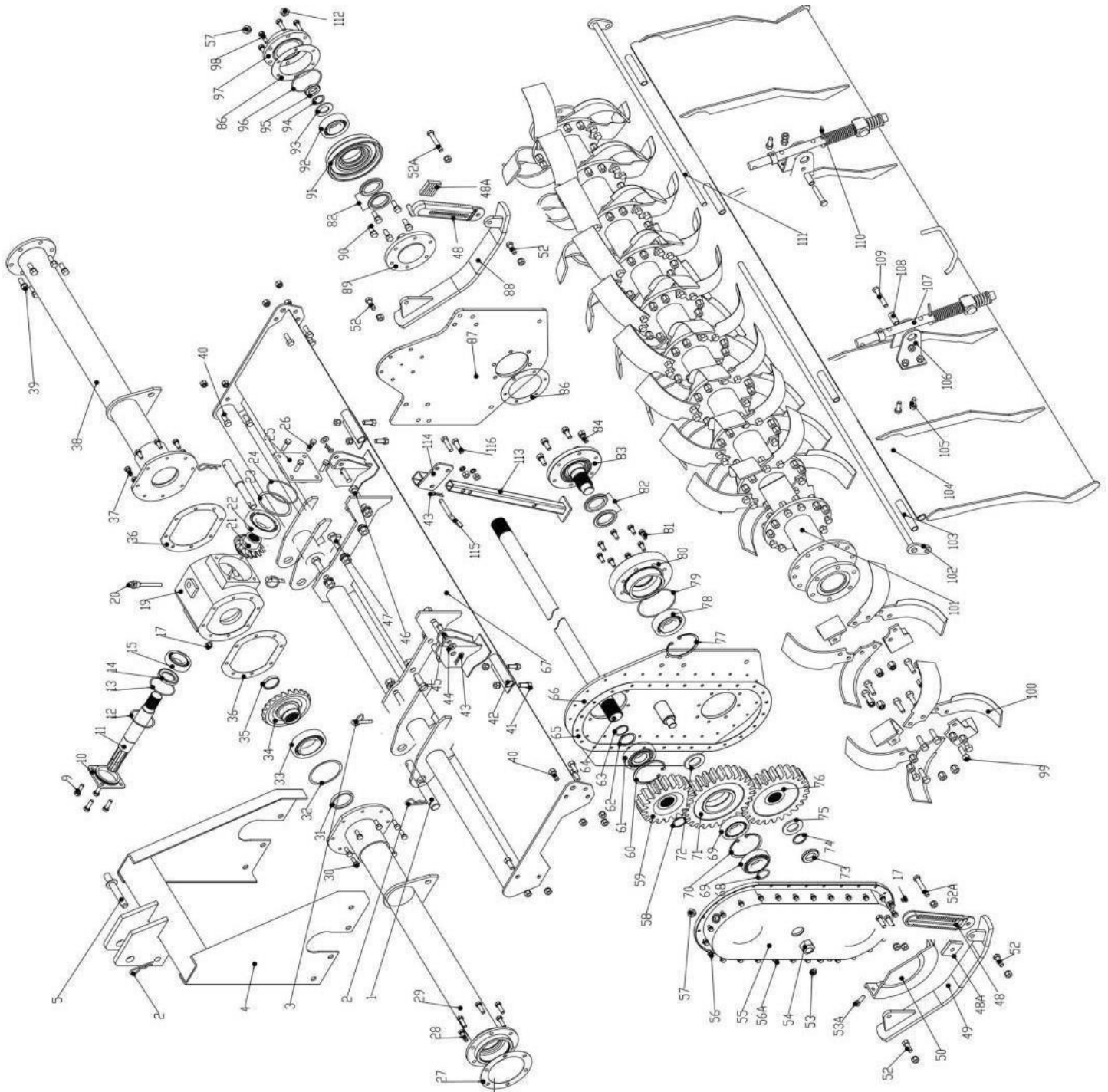
# Frame RXT-080, RXT-088, RXT-096 (Version 1&2)



## Frame RXT-080, RXT-088, RXT-096 (Version 1&2)

Item	Part #	Description	Qty.
1	SB100755	Lower Hitch Pin - Cat. 1 & 2	2
2	RC4	R-Clip- M4	4
3	SB100756	Lynch pin	2
4	RXA0100	A-Frame	1
5	YT1066010204	Top Hitch Pin Cat. 1	1
9	BM101520	Bolt- M10 x 1.5 x 20	4
9A	RX0304-1	Shield- Gearbox	1
9B	BM0812516	Bolt- M8 x 1.25 x 16	3
9C	RX0304-2	Shield Support - Gearbox	1
10	RX0310	Cap - Front Gearbox	1
11	RX0309	Input Shaft	1
12	OR75x3.55	O-Ring- M75 x 3.55	1
13	RX0311	Shim-Input Cap- M80 x 70 x 0.4	2
14	OS406508	Oil Seal- M40 x 65 x 8	1
15	B6208	Bearing- 6208	1
16	RX0016	Shim- Input Bearing- M50 x 40 x 2	1
17	OP12125	Oil Plug- M12 X 1.25	2
18	SRE-40	Snap Ring- Pinion Gear - Front	1
19	RX0305	Housing Gearbox	1
20	RX02003000	Gearbox Oil Dipstick	1
21	RX0308	Pinion Gear	1
22	B30310	Bearing- 30310	1
23	RX0306	Gearbox Back Gasket	2
24	OR95x3.55	O-Ring- M95 x 3.55	1
25	RX0307	Gearbox Cap	1
26	BM101525	Bolt- M10 x 1.5 x 25	4
27	RX0315	Gasket - Drive shaft	1
28	BM101525	Bolt- M10 x 1.5 x 25	6
29	RX0301-80	Drive Shaft Tube Housing- RXT-080	1
29	RX0301-88	Drive Shaft Tube Housing- RXT-088	1
29	RX0301-96	Drive Shaft Tube Housing- RXT-096	1
30	BM101525	Bolt- M10 x 1.5 x 25	8
31	OS557209	Oil Seal- M55 x 72 x 9	1
32	RX0303	Gasket- Drive Shaft Tube Housing	3
33	B6212	Bearing- 6212	1

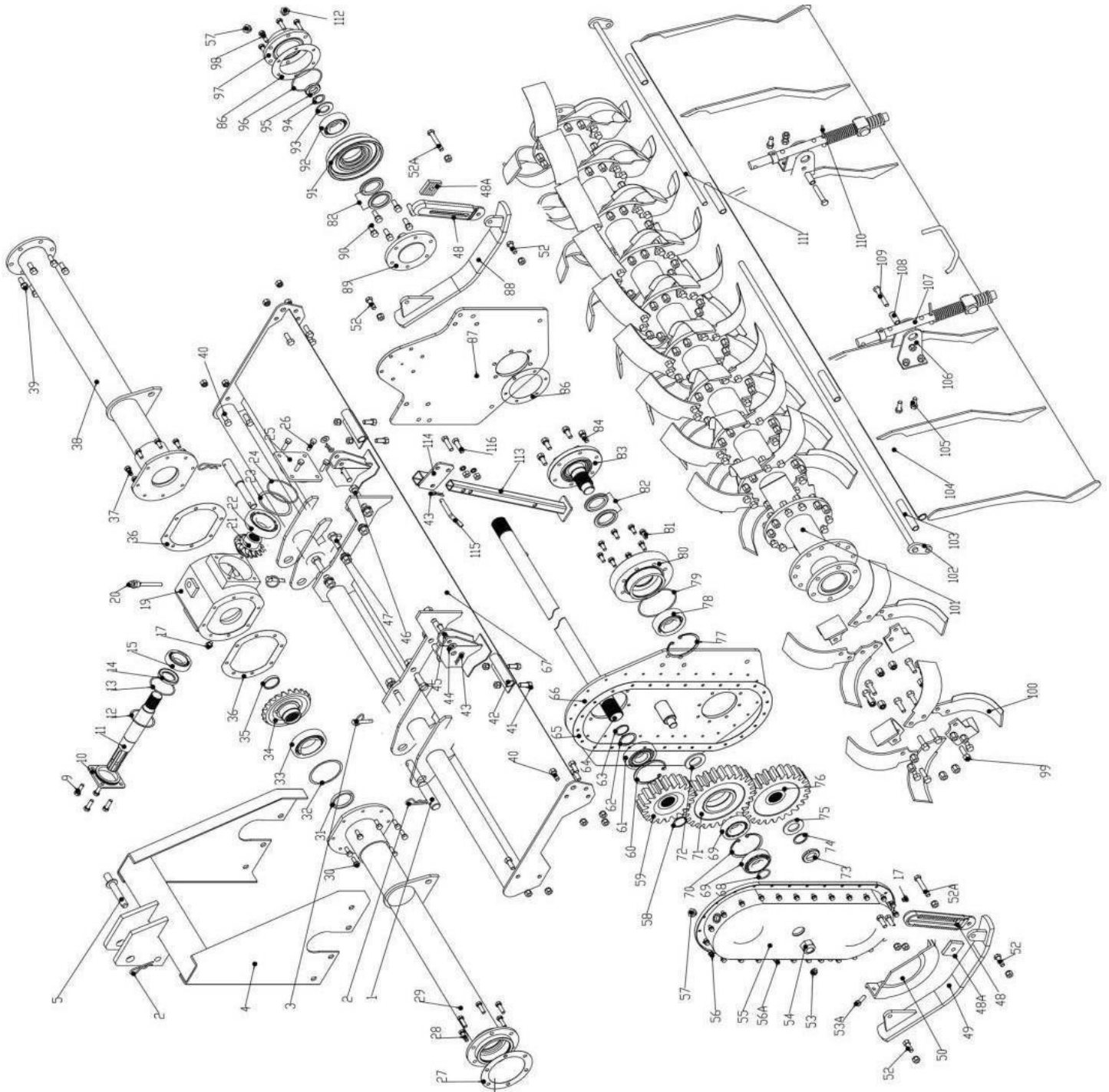
# Frame RXT-080, RXT-088, RXT-096 (Version 1&2)



## Frame RXT-080, RXT-088, RXT-096 (Version 1&2)

Item	Part #	Description	Qty.
34	RX0304	Ring Gear	1
35	RX0904	Cap- M52	1
36	RX0314	Gasket - Center Gearbox	2
37	BM1012530	Bolt- M10 x 1.25 x 25	8
38	RX0905-80	Gearbox Support Tube- RXT-080	1
38	RX0905-88	Gearbox Support Tube- RXT-088	1
38	RX0905-96	Gearbox Support Tube- RXT-096	1
39	BM1217525	Bolt- M12 x 1.75 x 25	8
40	BM1217535	Bolt- M12 x 1.75 x 35	12
41	BM1217525	Bolt- M12 x 1.75 x 25	4
42	RX0206	Hanger - Tailgate	2
43	RC3	R-Clip- Tailgate Adjustment	2
45	RX0205	Pin- Tailgate Adjustment	2
46	BM162050	Bolt- M16 x 2.0 x 50	2
47	BM162040	Bolt- M16 x 2.0 x 40	6
48	RX0600	Skid Support (Version 1)	2
48	BV0801	Skid Adjustment Bracket (Version 2)	2
48A	BV0802	Skid Adjustment Stop (Version 2)	2
49	RX0601	Skid Weldment - Left (Version 1)	1
	RXG0601	Skid Weldment—Left (Version 2)	1
50	RX0502	Skid Shield	1
51	RX0505	Skid Bracket	1
52	BM1217535	Bolt- M12 x 1.75 x 35	10
52A	BM1212560	Bolt- M12 x 1.25 x 60	2
53	OP1212500	Oil Plug- M12	1
53A	BM1217520	Bolt- M12 x 1.75 x 20	1
54	LN2415	Lock Nut- M24 x 1.5	1
55	RX0503	Side Drive Cover	1
56	BM812525	Bolt- M8 x 1.25 x 25	23
56A	BM812516	Bolt- M8 x 1.25 x 16	4
57	DP1615B	Breather cap- Side housing	1
58	SRE-45	Snap Ring- External- M45	1
59	RX0506	Top Gear	1
60	SRI-100	Snap Ring - Top Gear Bearing	1

# Frame RXT-080, RXT-088, RXT-096 (Version 1&2)

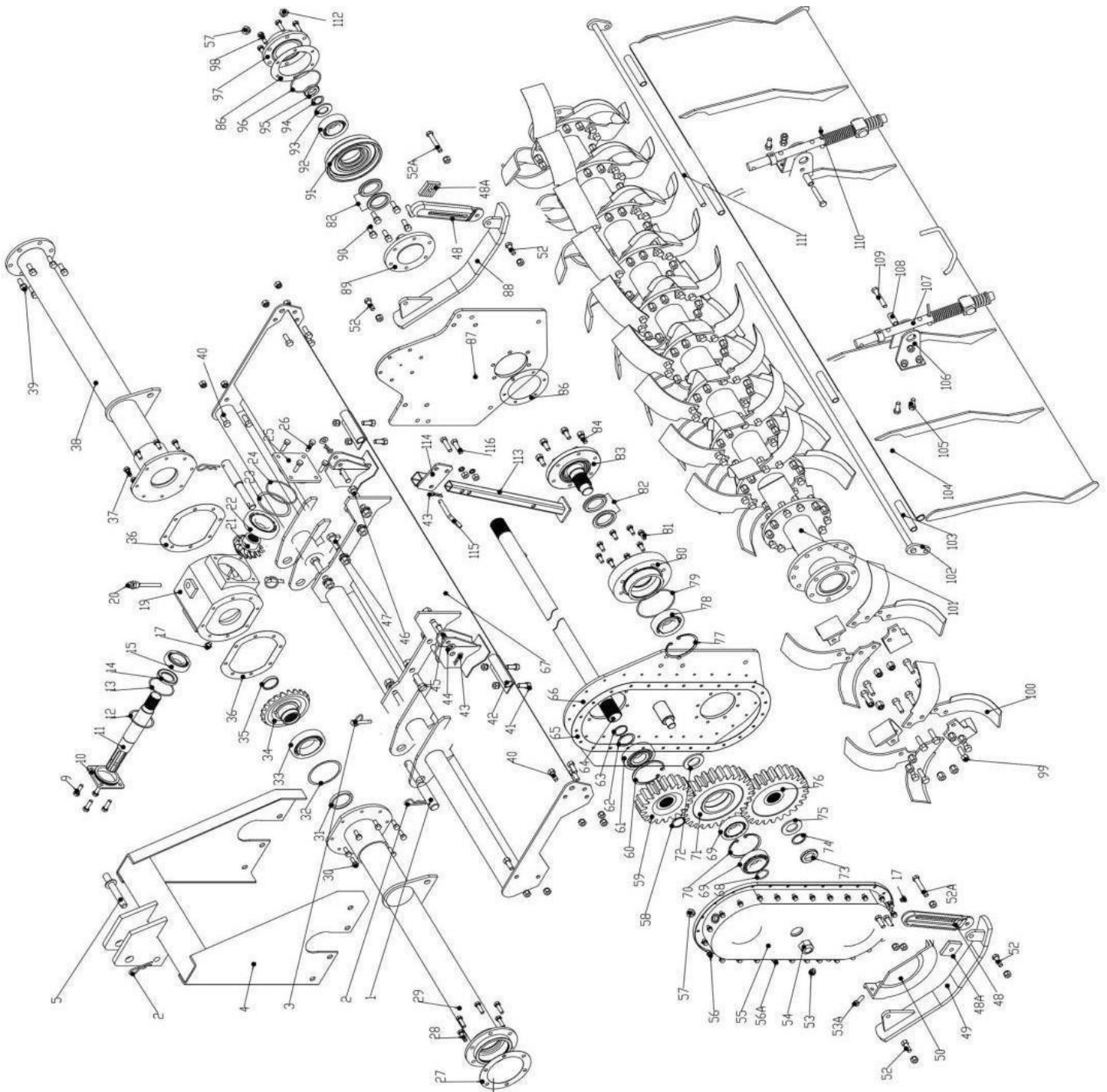




## Frame RXT-080, R XT-088, RXT-096 (Version 1&2)

Item	Part #	Description	Qty.
61	BNUP309E	Bearing- BNUP309E	1
62	RX0301	Gasket - Drive side- Top Gear	1
63	SRE-45	Snap Ring- External- M45	1
64	RX0302-80	Drive Shaft- RXT-080	1
64	RX0302-88	Drive Shaft- RXT-088	1
64	RX0302-96	Drive Shaft- RXT-096	1
65	RX0500	Gasket- Side Gear Case	1
66	RX0501	Side Panel- Left (Version 1)	1
	RXG0501	Side Panel- Left (Version 2)	1
67	RX0201-80	Frame Weldment - RXT-080	1
67	RX0201-88	Frame Weldment - RXT-088	1
67	RX0201-96	Frame Weldment - RXT-096	1
68	OR35x5.5	O-Ring- M35 x 5.5	1
69	B30307	Bearing- 30307	2
70	SRI-90	Snap Ring- Internal- M90	1
71	RX0507	Idler Gear	1
72	RX0509	Spacer	1
73	T810-1998	Nut- M36 x 1.5	2
74	SRE-35	Snap Ring- External- M35	1
75	FW36	Flat Washer- M36	1
76	RX0508	Bottom Gear	1
77	SRI-100	Snap Ring- Internal- M100	1
78	B6309	Bearing- 6309	1
79	OR122x3.55	O-Ring- M122 x 3.55	1
80	RX0402	Bearing Support - Left Side	1
81	BM101525	Bolt- M10 x 1.5 x 25	8
82	OS53576085	Oil Seal- M53.5 x 76 x 8.5	2
83	RX0401	Rotor Support Shaft - Left side	1
84	BM1217530	Bolt- M12 x 1.75 x 30	6
85	RX0204	Protector- Right Side	1
86	RX0406	Gasket- Rotor	2
87	RX0201	Side Panel- Right (Version 1)	1
	RXGU0201	Side Panel- Right (Version 2)	1

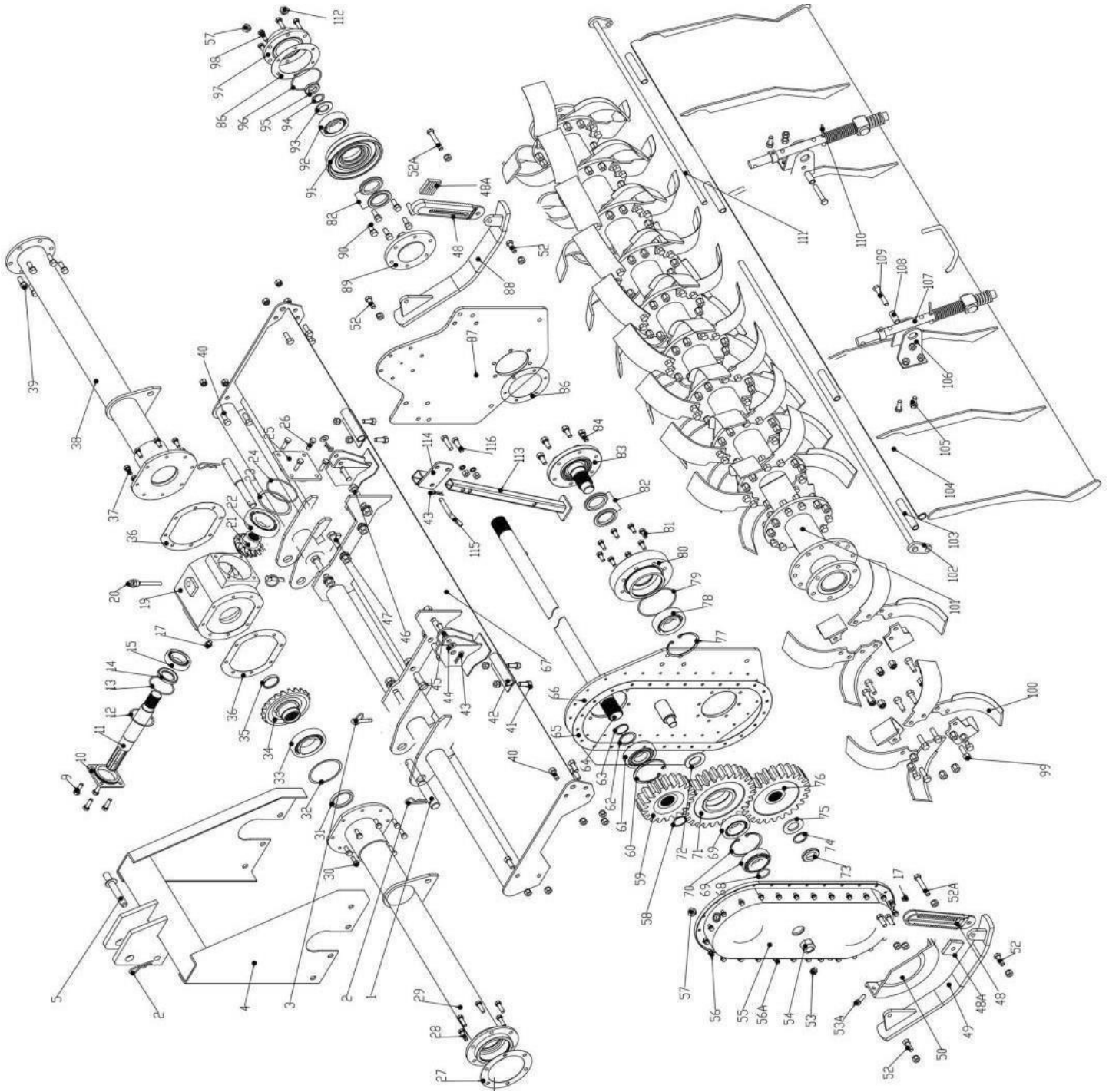
# Frame RXT-080, RXT-088, RXT-096 (Version 1&2)



## Frame RXT-080, RXT-088, RXT-096 (Version 1&2)

Item	Part #	Description	Qty.
82	OS53576085	Oil Seal- M53.5 x 76 x 8.5	2
83	RX0401	Rotor Support Shaft - Left side	1
84	BM1217530	Bolt- M12 x 1.75 x 30	6
85	RX0204	Protector- Right Side	1
86	RX0406	Gasket- Rotor	2
87	RX0201	Side Panel- Right (Version 1)	1
	RXGU0201	Side Panel- Right (Version 2)	1
88	RX0602	Skid Weldment- Right (Version 1)	1
	RXG0602	Skid Weldment- Right (Version 2)	1
89	RX0403	Rotor Support Shaft - Right side	1
90	BM101530	Bolt- M10 x 1.5 x 30	6
91	RX0404	Bearing Support	1
92	B6308	Bearing- 6308	1
93	FW30	Flat Washer- M30	1
94	SRE-30	Snap Ring- External- M30	1
95	SNM3015	Spanner Nut- M30 x 1.5	1
96	OR92.5x3.55	O-Ring- 92.5 x 3.55	1
97	RX0405	End Cap- Rotor Right side	1
98	BM101535	Bolt- M10 x 1.5 x 35	6
99	BM1212535	Bolt- M12 x 1.25 x 35 (Version 1)	120-132-144
99	LN12125	Self-locking Nut- M12 x 1.25 (Version 1)	120-132-144
99	BM141540	Bolt- M14 x 1.5 x 40 (Version 2 & 3 Only)	112-120-132
99	LN1415	Self-locking Nut- M14 x 1.5 (Version 2 & 3 Only)	112-120-132
100	RX0407L	Blade- Left (Version 1)	30-33-36
100	RX0407R	Blade- Right (Version 1)	30-33-36
100	RXU0407L	Blade- Left (Version 2)	28-30-33
100	RXU0407R	Blade- Right (Version 2)	28-30-33
101	RX0401-80	<b>Rotor- RXT-080 (Version 1)</b>	1
101	RX0401-88	Rotor- RXT-088 (Version 1)	1
101	RX0401-96	Rotor- RXT-096 (Version 1)	1
101	RXU0401-80	Rotor- RXT-080 (Version 2)	1
101	RXU0401-88	Rotor- RXT-088 (Version 2)	1
101	RXU0401-96	Rotor- RXT-096 (Version 2)	1

# Frame RXT-080, RXT-088, RXT-096 (Version 1&2)

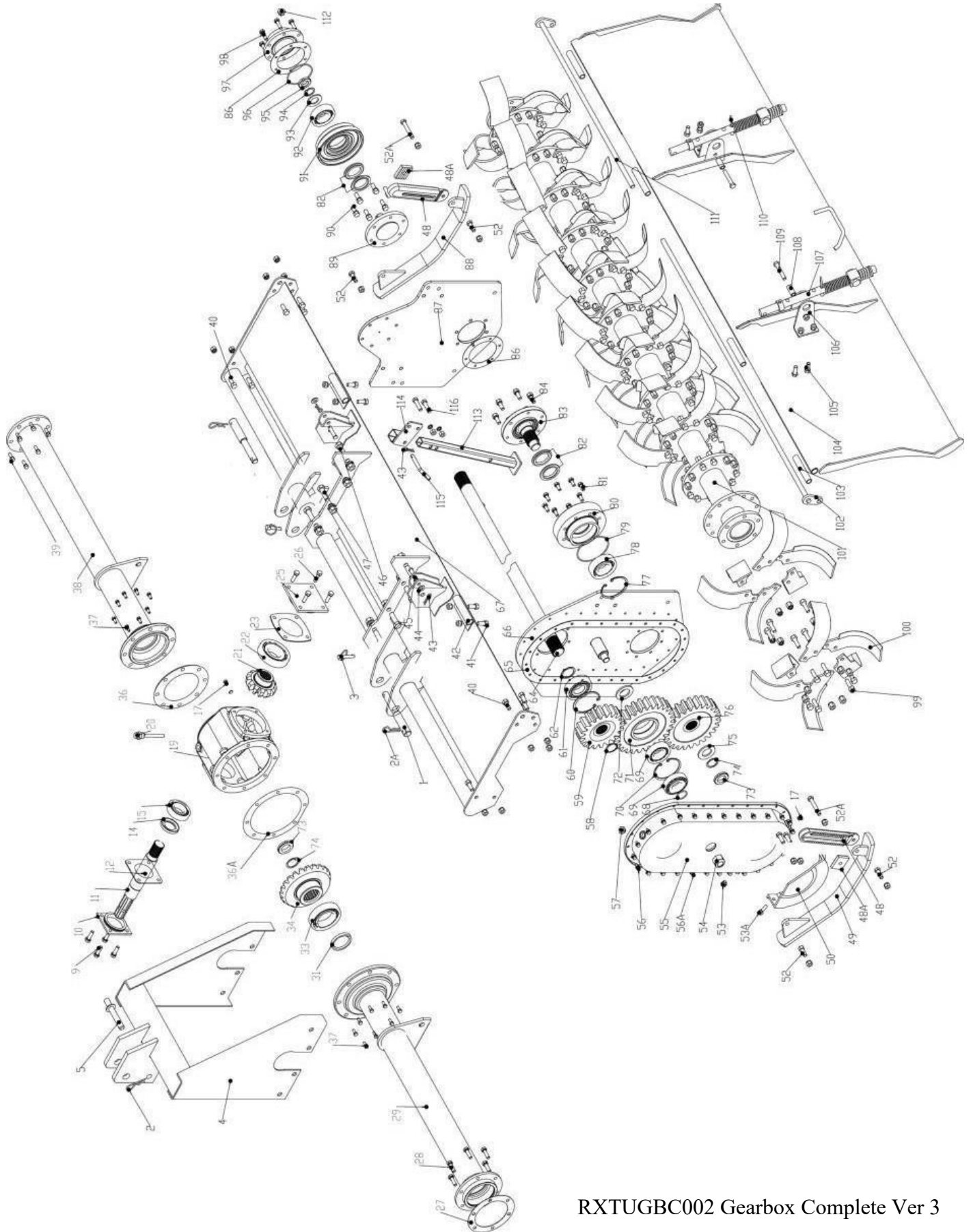


RXTGBC001 Gearbox Complete (Version 1-2)

## Frame RXT-080, RXT-088, RXT-096 (Version 1&2)

Item	Part #	Description	Qty.
102	RX0701-96	Rod- Tailgate- RXT- (Cut to fit)	1
103	RX0708	Rod Tube- Nylon	1
104	RX0702-80	Tailgate RXT-080	1
104	RX0702-88	Tailgate RXT-088	1
104	RX0702-96	Tailgate RXT-096	1
105	BM1217525	Bolt- M12 x 1.75 x 25	4
106	RX0702	Bracket- Tailgate Spring	2
107	RX0703	Rod- Tailgate Spring	2
108	RX0701	Bushing- Tailgate	2
109	BM1217570	Bolt- M12 x 1.75 x 70	2
110	RX0707	Spring- Tailgate	4
111	RX0701R-96	Rod- Tailgate RXT- (Cut to fit)	1
113	RX0801	Stand	1
114	RX0802	Bracket- Stand	1
115	YT10660501	Pin	1
116	BM1217530	Bolt- M12 x 1.75 x 30	2
	RXTGBC001	Gearbox Complete (Version 1-2)	
	147125	Complete PTO - Series 60 - 200mm Slip Clutch	1
	180-510-60	Friction Disc – 5.91” OD	4

# Frame RXT-072, RXT-080, RXT-088, RXT-096 (Version 3)

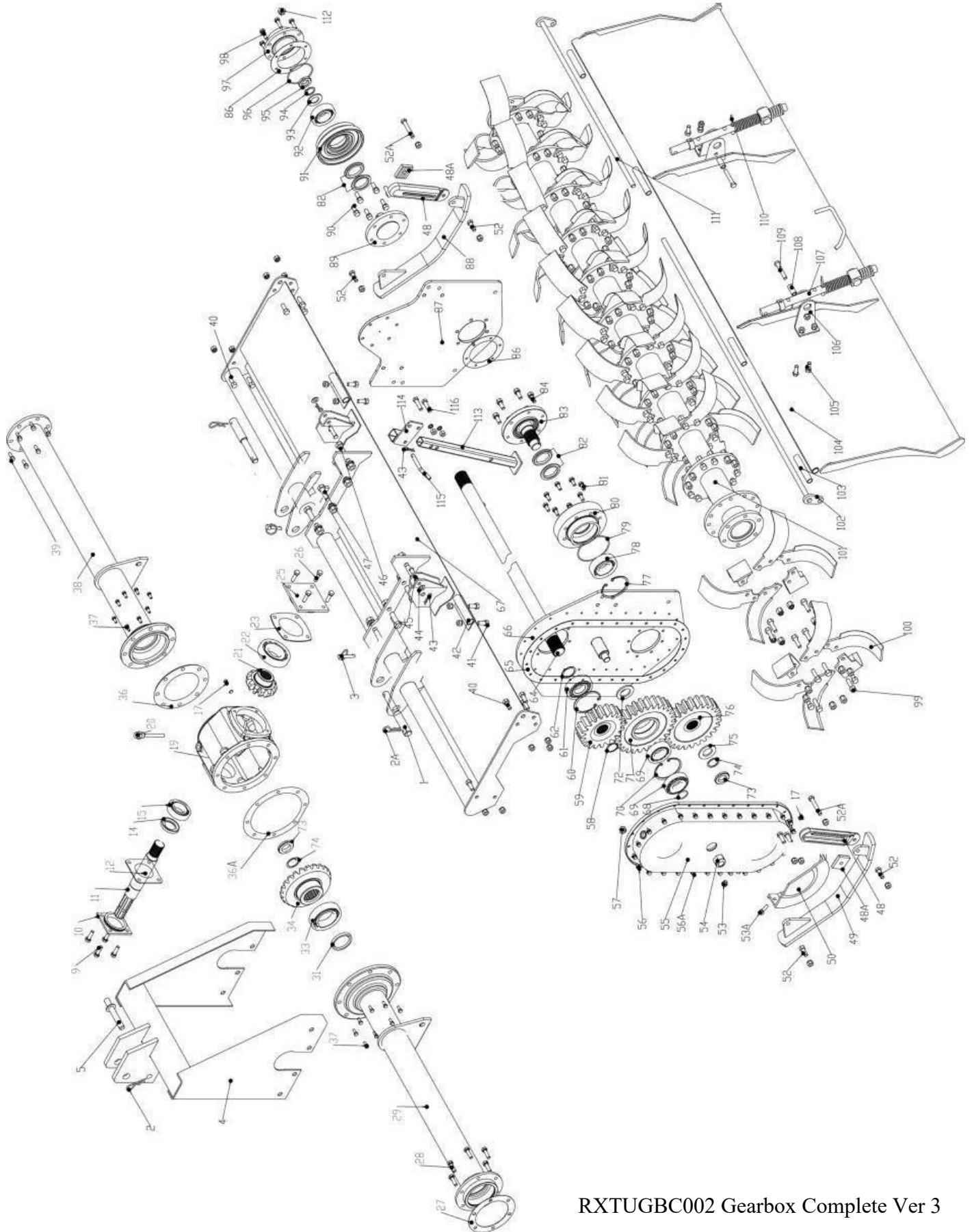


RXTUGBC002 Gearbox Complete Ver 3

## Frame RXT-072, RXT-080, RXT-088, RXT-096 (Version 3)

Item	Part #	Description	Qty.
1	SB100755	Lower Hitch Pin- Cat. 1 & 2	2
2	RC4	R-Clip- M4	4
3	LYNPN10	Lynch Pin- M10	2
4	RXA0100	A Frame	1
5	YT1066010204	Top Hitch Pin Cat. 1	1
9	BM101520	Bolt- M10 x 1.5 x 20	4
9A	RX0304-1	Shield- Gearbox	1
9B	BM0812516	Bolt- M8 x 1.25 x 16	3
9C	RX0304-2	Shield Support - Gearbox	1
10	RX0A310	Cap- Front Gearbox	1
11	RXA0309	Input Shaft	1
12	RX0906	Gasket- Input Shaft	1
14	OS406508	Oil Seal- M40 x 65 x 8	1
15	B30208	Bearing- 30208	1
17	OP12125	Oil Plug- M12 x 1.25	2
19	RXA0305	Housing - Gearbox	1
20	RX02003000	Gearbox Oil Plug	1
21	RXA0308	Pinion Gear	1
22	B30212	Bearing- 30212	1
23	RXA0306	Gearbox Back Gasket	2
25	RXA0307	Gearbox Cap	1
26	BM101530	Bolt- M10 x 1.5 x 30	4
27	RX0315	Gasket - Drive shaft	1
28	BM101525	Bolt- M10 x 1.5 x 25	6
29	RX0301-72	Drive Shaft Tube Housing- RXT-072	1
	RX0301-80	Drive Shaft Tube Housing- RXT-080	1
29	RX0301-88	Drive Shaft Tube Housing- RXT-088	1
29	RX0301-96	Drive Shaft Tube Housing- RXT-096	1
30	BM101525	Bolt- M10 x 1.5 x 25	8
31	OS458012	Oil Seal- M45 x 80 x 12	1
33	B6217	Bearing- 6217	1
34	RXA0304	Ring Gear	1
36	RX0907	Gasket - Center Gearbox Right Side	1

# Frame RXT-072, RXT-080, RXT-088, RXT-096 (Version 3)



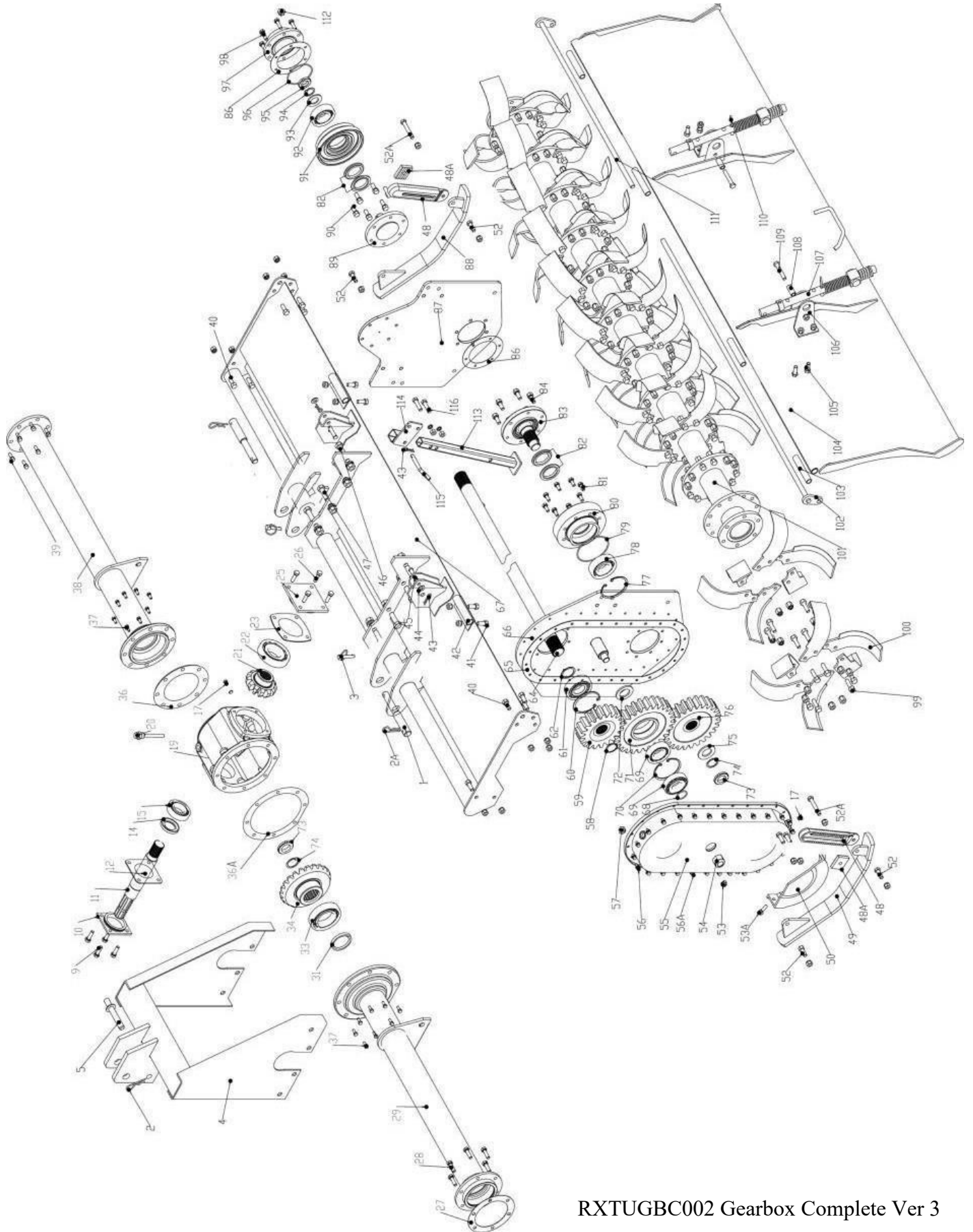
RXTUGBC002 Gearbox Complete Ver 3



## Frame RXT-072, RXT-080, RXT-088, RXT-096 (Version 3)

Item	Part #	Description	Qty.
36A	RXA0314	Gasket - Center Gearbox Left Side	1
37	BM1012530	Bolt- M10 x 1.25 x 25	8
38	RX0905-72	Gearbox Support Tube- RXT-072	1
	RX0905-80	Gearbox Support Tube- RXT-080	1
	RX0905-88	Gearbox Support Tube- RXT-088	1
	RX0905-96	Gearbox Support Tube- RXT-096	1
39	BM1217525	Bolt- M12 x 1.75 x 25	8
40	BM1217535	Bolt- M12 x 1.75 x 35	12
41	BM1217525	Bolt- M12 x 1.75 x 25	4
42	RX0206	Hanger- Tailgate	2
43	RC3	R-Clip- Tailgate Adjustment	2
45	RX0205	Pin- Tailgate Adjustment	2
46	BM162050	Bolt- M16 x 2.0 x 50	2
47	BM162040	Bolt- M16 x 2.0 x 40	6
48	RX0600	Skid Support	2
48	BV0801	Skid Adjustment Bracket	2
48A	BV0802	Skid Adjustment Stop	2
49	RXG0601	Skid Weldment- Left	1
50	RX0502	Skid Shield	1
51	RX0505	Skid Bracket	1
52	BM1217535	Bolt- M12 x 1.75 x 35	10
52A	BM1212560	Bolt- M12 x 1.25 x 60	2
53	OP12125	Oil Plug- M12 x 1.25	1
53A	BM1217520	Bolt- M12 x 1.75 x 20	1
54	LNM2415	Self-locking Nut- M24 x 1.5	1
55	RX0503	Side Drive Cover	1
56	BM0812525	Bolt- M8 x 1.25 x 25	23
56A	BM0812516	Bolt- M8 x 1.25 x 16	4
57	OP1415V	Oil Plug Vented- M14 x 1.5	1
58	T810-1998	Spanner Nut- M36 x1.5	1
59	RX0506	Top Gear	1
60	SRI-100	Snap Ring- Internal- Top Gear Bearing	1
61	BNUP309E	Bearing- BNUP309E	1

# Frame RXT-072, RXT-080, RXT-088, RXT-096 (Version 3)

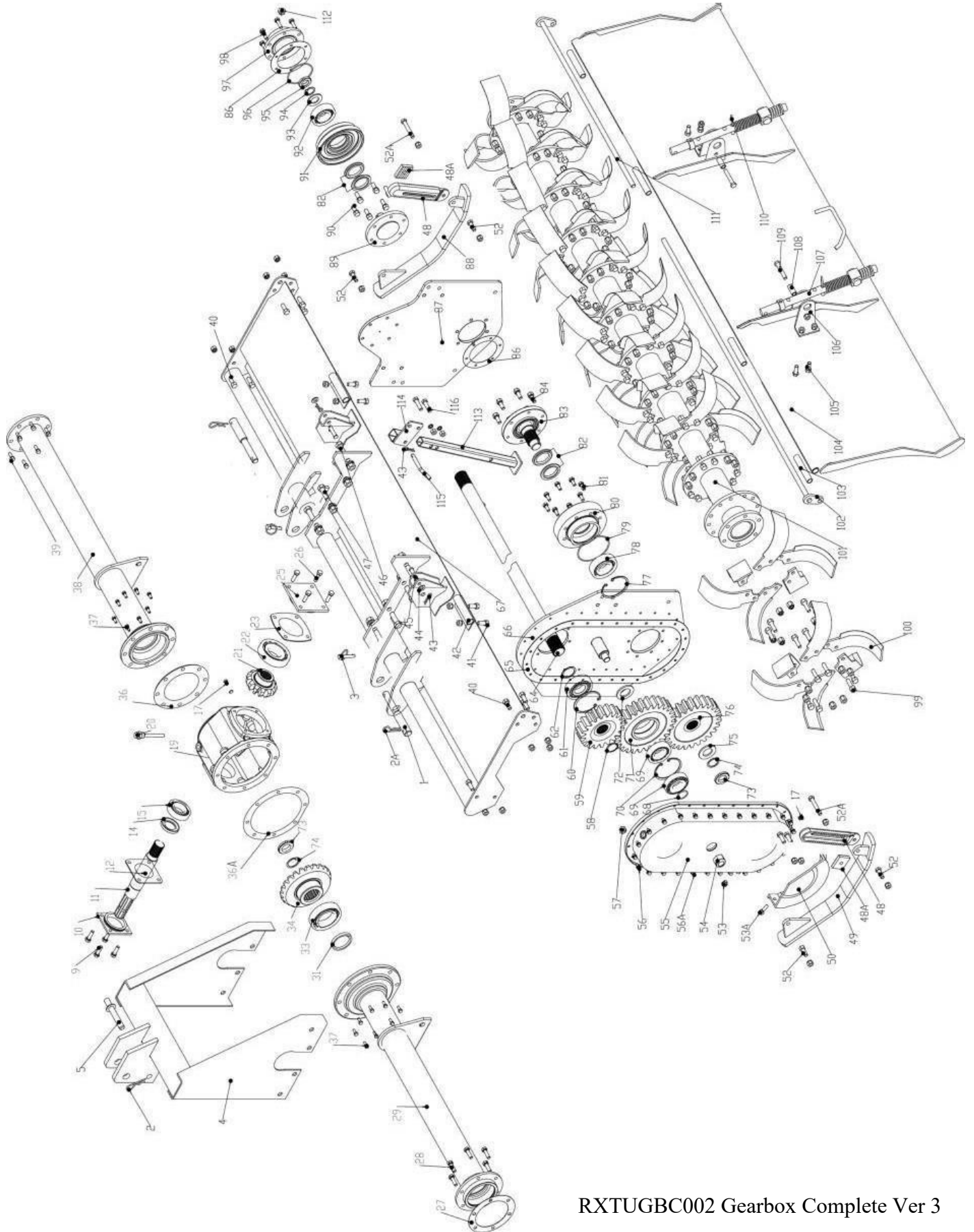


RXTUGBC002 Gearbox Complete Ver 3

## Frame RXT-072, RXT-080, RXT-088, RXT-096 (Version 3)

Item	Part #	Description	Qty.
62	RX0301	Gasket - Drive side- Top Gear	1
63	SRE-45	Snap Ring- External- M45	1
64	RXU0302-072	Drive Shaft- RXT-072	1
64	RXU0302-80	Drive Shaft- RXT-080	1
64	RXU0302-88	Drive Shaft- RXT-088	1
64	RXU0302-96	Drive Shaft- RXT-096	1
65	RX0500	Gasket- Side Gear Case	1
66	RXG0501	Side Panel-Left	1
67	RX0201-72	Frame Weldment- RXT-072	1
67	RX0201-80	Frame Weldment- RXT-080	1
67	RX0201-88	Frame Weldment- RXT-088	1
67	RX0201-96	Frame Weldment- RXT-096	1
68	OR35x5.5	O-Ring- M35 x 5.5	1
69	B30307	Bearing- 30307	2
70	SRI-90	Snap Ring- Internal- M90	1
71	RX0507	Idler Gear	1
72	RX0509	Spacer	1
73	T810-1998	Nut- M36 x 1.5	2
74	SRE-35	Snap Ring- External- M36	2
75	FW36	Flat Washer- M36	1
76	RX0508	Bottom Gear	1
77	SRI-100	Snap Ring- Internal- M100	1
78	B6309	Bearing- 6309	1
79	OR122x3.55	O-Ring- M122 x 3.55	1
80	RX0402	Bearing Support- Left Side	1
81	BM101525	Bolt- M10 x 1.5 x 25	8
82	OS53576085	Oil Seal- M53.5 x 76 x 8.5	2
83	RX0401	Rotor Support shaft- Left side	1
84	BM1217530	Bolt- M12 x 1.75 x 30	6
85	RX0204	Protector- Right Side	1
86	RX0406	Gasket- Rotor	2
87	RXGU0201	Side Panel- Right	
88	RXG0602	Skid Weldment- Right	

# Frame RXT-072, RXT-080, RXT-088, RXT-096 (Version 3)

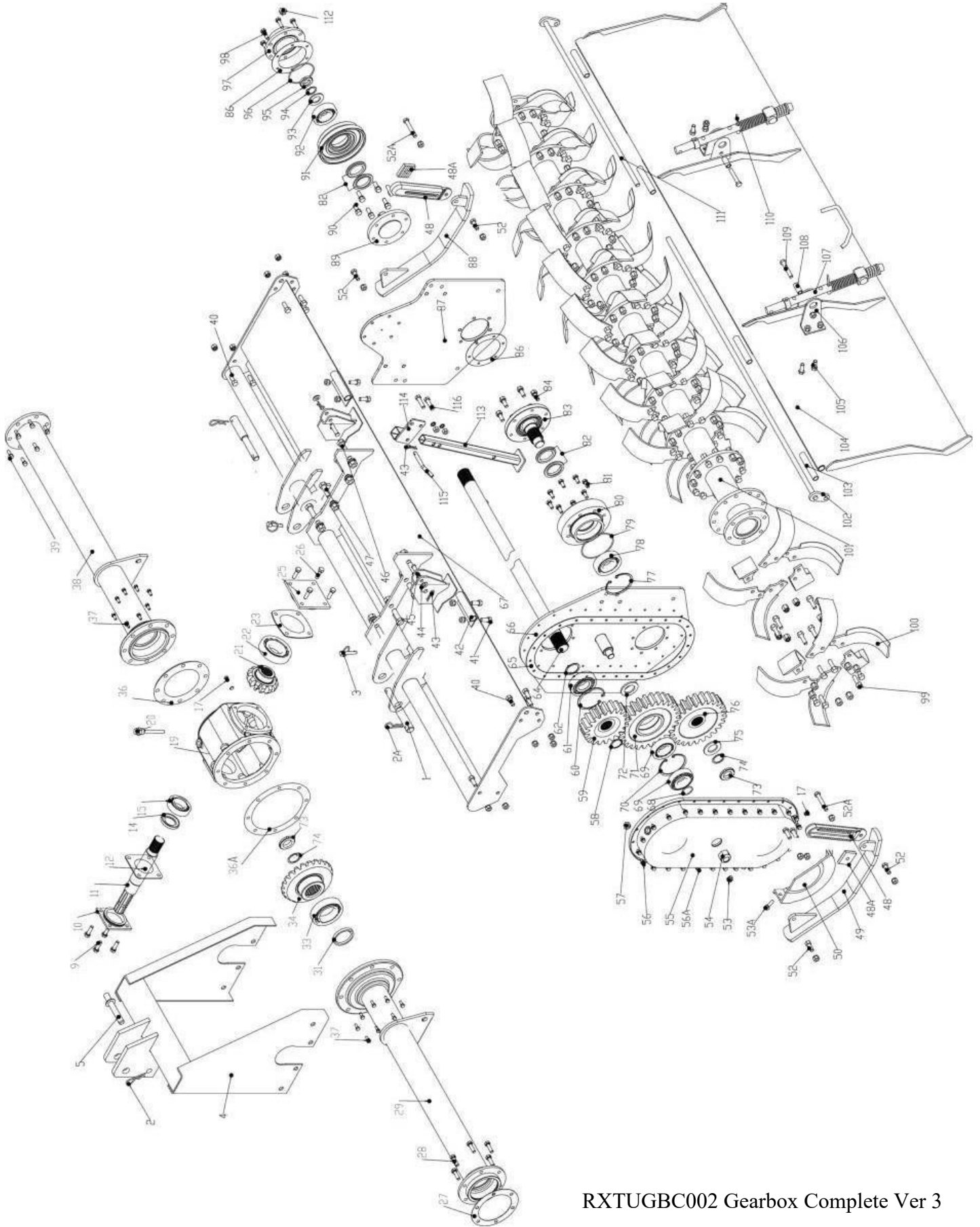


RXTUGBC002 Gearbox Complete Ver 3

## Frame RXT-072, RXT-080, RXT-088, RXT-096 (Version 3)

Item	Part #	Description	Qty.
89	RX0403	Rotor Support shaft- Right side	1
90	BM101530	Bolt- M10 x 1.5 x 30	6
91	RX0404	Bearing Support	1
92	B6308	Bearing- 6308	1
93	FW30	Flat Washer- M30	1
94	SRE-30	Snap Ring- External- M30	1
95	SNM30150	Spanner Nut- M30 x 1.5	1
96	OR92.5x3.55	O Ring- M92.5 x 3.55	1
97	RX0405	End Cap- Rotor Right side	1
98	BM101535	Bolt- M10 x 1.5 x 35	6
99	BM141540	Bolt- M14 x 1.5 x 40 (Version 2 &3)	84-112-120-132
	LN1415	Self-locking Nut- M14 x 1.5 (Version 2 & 3)	84-112-120-132
100	RXU0407L	Blade - Left	21-28-30-33
100	RXU0407R	Blade - Right	21-28-30-33
101	RXU0401-72	Rotor- RXT-072	1
	RXU0401-80	Rotor- RXT-080	1
	RX0U401-88	Rotor- RXT-088	1
	RX04U01-96	Rotor- RXT-096	1

# Frame RXT-080, RXT-088, RXT-096 (Version 3)

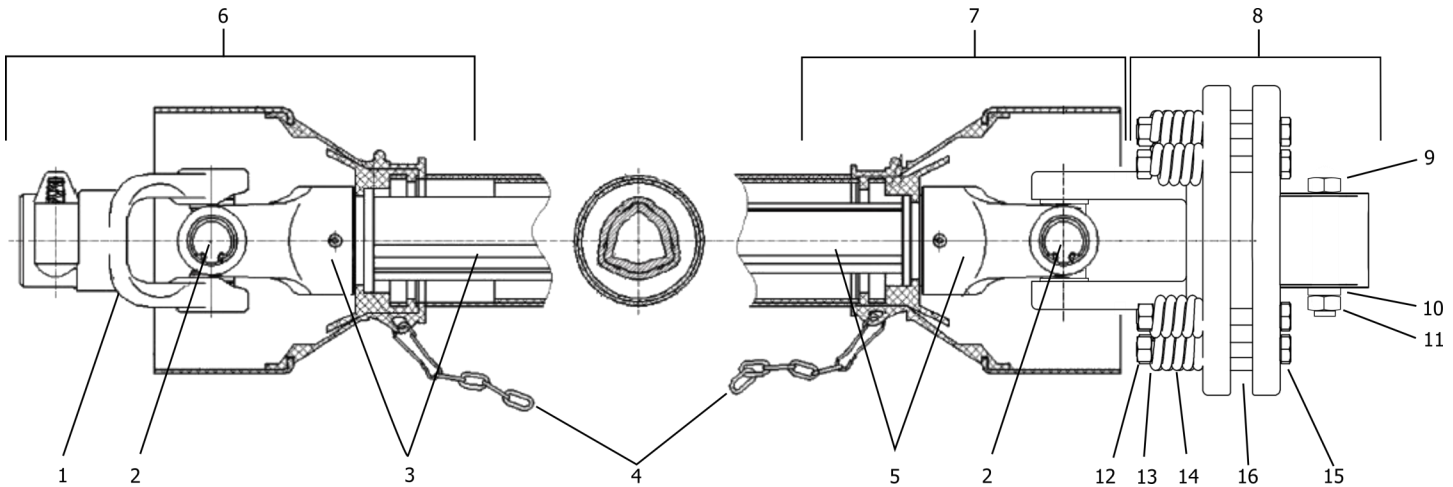


RXTUGBC002 Gearbox Complete Ver 3

## Frame RXT-080, RXT-088, RXT-096 (Version 3)

Item	Part #	Description	Qty.
102	RX0701-96	Rod- Tailgate RXT (Cut to fit)	1
103	RX0708	Rod Tube - Nylon	1
104	RX0702-72	Tailgate- RXT-072	1
104	RX0702-80	Tailgate- RXT-080	1
104	RX0702-88	Tailgate- RXT-088	1
104	RX0702-96	Tailgate- RXT-096	1
105	BM1217525	Bolt- M12 x 1.75 x 25	4
106	RX0702	Bracket- Tailgate Spring	2
107	RX0703	Rod- Tailgate Spring	2
108	RX0701	Bushing- Tailgate	2
109	BM1217570	Bolt- M12 x 1.75 x 70	2
110	RX0707	Spring- Tailgate	4
111	RX0701-96	Rod-RXT- (Cut to fit)	1
113	RX0801	Stand	1
114	RX0802	Bracket- Stand	1
115	YT10660501	Pin	1
116	BM1217530	Bolt- M12 x 1.75 x 30	2
	RXTUGBC002	Gearbox Complete (Version 3)	
	147125	Complete PTO - Series 60 - M200 Slip Clutch	
	180-510-60	Friction Disc – 5.91” OD	4
117	OP1415	Oil Plug– M14 x 1.5	1

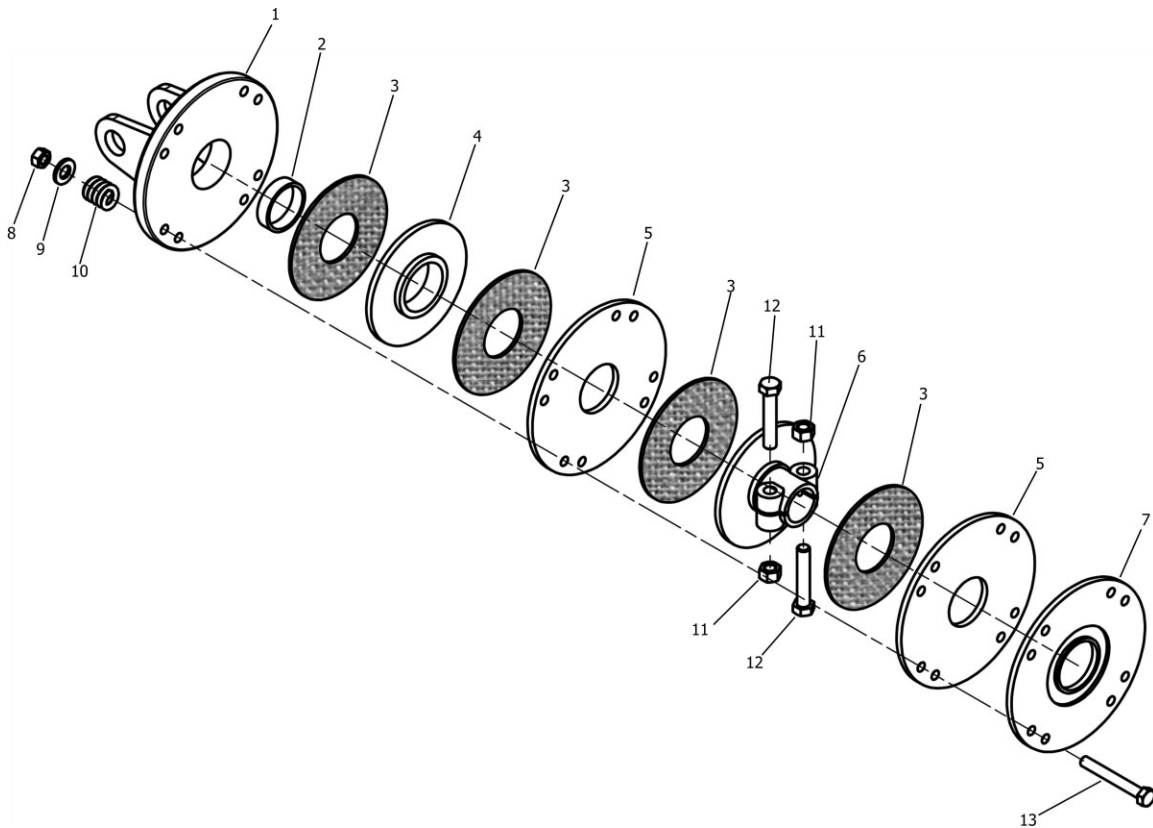
## PTO Shaft - RXT



Item	Part #	Description	Qty.
1	DP1075-60	PTO Yoke - Series 60	1
2	DP1076-60	Cross and Bearings - Series 60	2
3	DP1079-60	Female Yoke and Tube (tractor end) - Series 60	1
4	5SB3007	Safety chain	2
5	DP1078-60	Male Yoke and Tube (implement end) - Series 60	1
6	DP1074F-60	Complete Female End PTO Shielding (tractor end)	1
7	DP1074M-60	Complete Male End PTO Shielding (implement end)	1
8	DP1098-60	Slip clutch complete 200mm clutch	1
9	BM1217565	Bolt HH M12-1.75x65 (8.8)	2
10	LNM12175	Nut lock M12-1.75	2
11	FW12	Washer flat M12	2
12	LNM1015	Nut lock M10-1.50	8
13	FW10	Washer flat M10	8
14	1215012-30	Spring - slip clutch	8
15	BM1015100	Bolt HH 10-1.50x100 (8.8)	8
16	180-510-60	Friction disc - 150mm x 93mm	4
-	147125	Complete PTO - Series 60 - 200mm Slip Clutch	1



## Slip Clutch RXT-080, RXT-088, RXT-096 (Version 3)



Item	Part #	Description	Qty.
1	DP1097-60	Slip clutch flange yoke	1
2	DP1083-60	Nylon slip clutch ring	1
3	180-510-60	Friction disc	4
4	DP1076-60	Back friction plate	1
5	DP1090-60	Center friction plate	2
6	DP1085-60	Center female 6 spline yoke	1
7	DP1091-60	Back plate	1
8	LNM1015	Nut M10-1.50	8
9	FW10	Washer M10	8
10	1215012-30	Clutch spring	8
11	LNM12175	Nut lock M12-1.75	2
12	FW12	Washer flat M12	2
13	BM1015100	Bolt M10-1.50x100 (8.8)	8
-	DP1098-60	Slip clutch complete 200mm clutch	1

## Model Modifications - RXT

<b>Model</b>	<b>Version</b>	<b>Serial Range</b>
<b>RXT-072</b>	<b>1</b>	<b>Up to 151254</b>
<b>RXT-080</b>	<b>1</b>	<b>Up to 161078</b>
<b>RXT-088</b>	<b>1</b>	<b>Up to 181098</b>
<b>RXT-096</b>	<b>1</b>	<b>Up to 171173</b>
<b>RXT-072</b>	<b>2</b>	<b>151235-151254</b>
<b>RXT-080</b>	<b>2</b>	<b>161073-161074</b>
<b>RXT-088</b>	<b>2</b>	<b>181099-181105</b>
<b>RXT-096</b>	<b>2</b>	<b>171163, 171160, 171161, 171174-171179</b>
<b>RXT-072</b>	<b>3</b>	<b>151255+</b>
<b>RXT-080</b>	<b>3</b>	<b>161079 +</b>
<b>RXT-088</b>	<b>3</b>	<b>181106 +</b>
<b>RXT-096</b>	<b>3</b>	<b>171180 +</b>

## Warranty

### LIMITED WARRANTY

Tar River Equipment warrants to the original purchaser of any new piece of machinery from Tar River Resources Equipment, purchased from an authorized Tar River Equipment dealer, that the equipment be free from defects in material and workmanship for a period of one (1) year for non-commercial, state, and municipalities' use, ninety (90) days for commercial use from date of retail sale. Warranty for rental purposes is thirty (30) days. The obligation of Tar River Equipment to the purchaser under this warranty is limited to the repair or replacement of defective parts.

Replacement or repair parts installed in the equipment covered by this limited warranty are warranted for ninety (90) days from the date of purchase of such part or to the expiration of the applicable new equipment warranty period, whichever occurs later. Warranted parts shall be provided at no cost to the user at an authorized Tar River Equipment dealer during regular working hours. Tar River Equipment reserves the right to inspect any equipment or parts, which are claimed to have been defective in material or workmanship.

This limited warranty does not apply to and excludes wear items such as shear pins, tires, tubes knives, blades or other wear items. Oil or grease is not covered by this warranty.

All obligations of Tar River Equipment under this limited warranty shall be terminated if:

- Proper service is not performed on the machine.

- The machine is modified or altered in any way.

- The machine is being used or has been used for purposes other than those for which the machine was intended.

### DISCLAIMER OF IMPLIED WARRANTIES & CONSEQUENTIAL DAMAGES

Tar River Equipment obligation under this limited warranty, to the extent allowed by law, is in lieu of all warranties, implied or expressed, including implied warranties of merchantability and fitness for a particular purpose and any liability for incidental and consequential damages with respect to the sale or use of the items warranted. Such incidental and consequential damages shall include but not be limited to: transportation charges other than normal freight charges; cost of installation other than cost approved by Tar River Equipment; duty; taxes; charges for normal service or adjustment; loss of crops or any other loss of income; rental of substitute equipment, expenses due to loss, damage, detention or delay in the delivery.

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