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MANUAL & PART LIST

SM SERIES

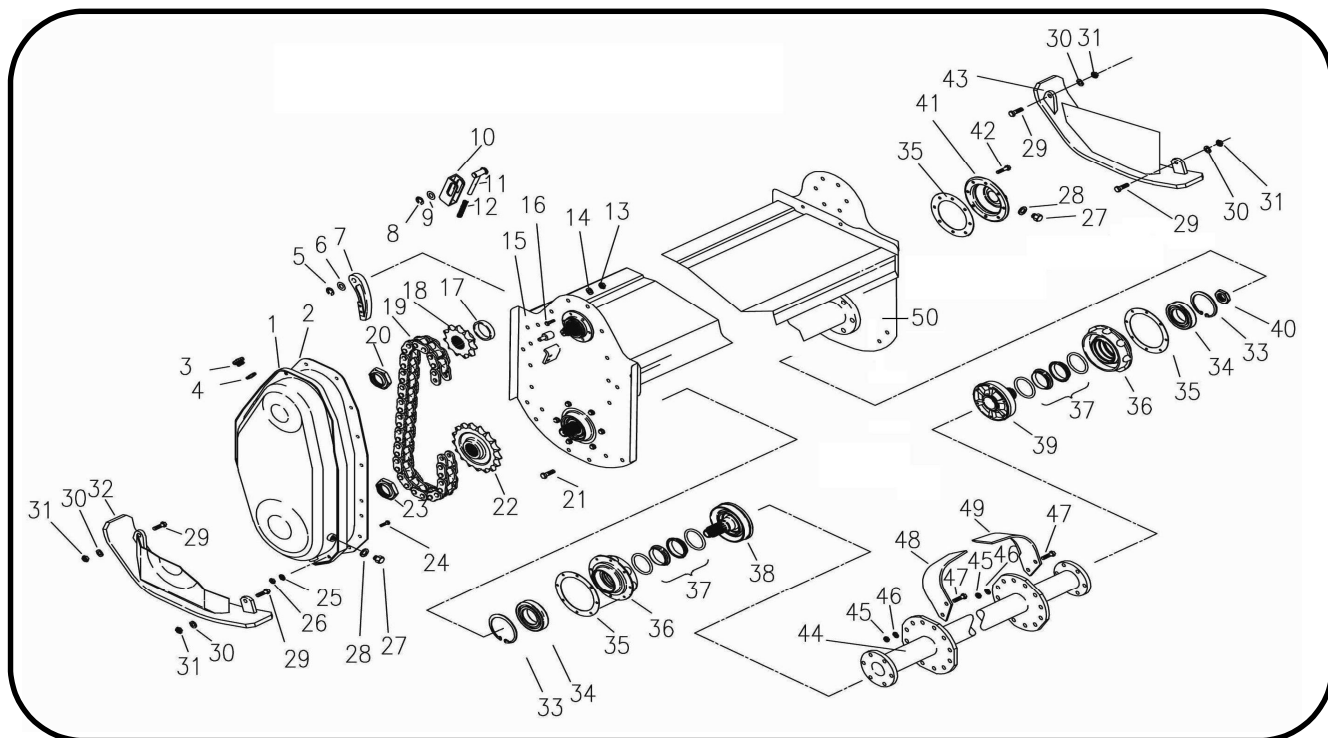


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◆ SM PART LIST (Side Plate & Rotor Shaft Group) ◆



No.	Part No.	Part Name	Spec.
1	WR101 – 306	Chain Case Group	3.2T
2	WR101 – 371	packing	2T
3	WR101 – 373	Plug Bolt	PE 1/2
4	WR101 – 361	Seal Washer	D18
5	WR101 – 356	Snap Ring	C9
6	WR101 – 372	Plane Washer	d12
7	WR101 – 307	Tightener	
8	WR101 – 356	Snap Ring	C16
9	WR101 – 372	Plane Washer	D30*d16.2*2T
10	WR101 – 303	Rod Holder Group	
11	WR101 – 364	Spring Rod	
12	WR101 – 314	Spring	D1.4*13.5*95
13	WR101 – 350	Nut	M12*1.25*35
14	WR101 – 359	Spring Washer	D12
15	WR101 – 320	Side Plate(LH)	
16	WR101 – 353	Bolt	M12*1.25*35
17	WR101 – 377	Spacer	D57*7T
18	WR101 – 313	Sprocket	11T*P28.575
19	WR101 – 318	Chain	P28.585*44L
20	WR101 – 374	Hard lock nut	M50*1.5(B50)
21	WR101 – 353	Bolt	M12*1.25*35
22	WR101 – 313	Sprocket	17T*P28.575
23	WR101 – 374	hard rock nut	M35*1.5(B50)
24	WR101 – 353	Bolt	M10*1.25*25
25	WR101 – 372	Plane Washer	D10

No.	Part No.	Part Name	Spec.
26	WR101 – 350	Nut	M10*1.25
27	WR101 – 373	Plug Bolt	PE 1/4
28	WR101 – 361	Seal washer	PE 1/4
29	WR101 – 353	Bolt	M12*1.25*35
30	WR101 – 359	Spring washer	D12
31	WR101 – 350	Nut	M12*1.25
32	WR101 – 312	Skid group(LH)	
33	WR101 – 356	Snap ring	C100
34	WR101 – 352	Ball bearing	#6309
35	WR101 – 371	Packing	1T
36	WR101 – 310	Bearing Case	
37	WR101 – 302	Group seal	8070S070SJ
38	WR101 – 305	Rotor drive shaft(LH)	
39	WR101 – 304	Rotor drive shaft(RH)	
40	WR101 – 374	Hard lock nut	M45*1.5(B60)
41	WR101 – 308	Bearing Case Cover	
42	WR101 – 353	Bolt	M12*1.25*30
43	WR101 – 311	Skid Group(RH)	
44	WR101 – 504	Rotor Shaft Group	
45	WR101 – 350	Nut	M14*1.5
46	WR101 – 501	Spring Washer	M14
47	WR101 – 353	Bolt	M14*1.5*25
48	WR101 – 501	Blade(RH)	금성 42HP
49	WR101 – 502	Blade(LH)	금성 42HP
50	WR101 – 319	Side Plate(RH)	9T

- Always use the seat provided on the tractor with safety belt when working and ensure the tractor has a ROPS certified safety frame or cab.
- Monitor the tractor gauges and listen to the engine and Rotavator for unusual noises, if in doubt stop the tractor and check both the Tractor and Rotavator.
- If there is a need to get off the tractor, stop the engine, apply the brake and ensure the Rotavator is on the ground. On hilly terrain, also engage the lowest gear in the gearbox after stopping the engine. (there have been cases where, in steep terrain, the handbrake was not enough to hold the tractor)

Driving on the road

- When driving on the road, ensure that the PTO is stopped before raising the Rotavator to maximum height.
- Adjust the transport speed to the conditions and gradient of the road and allow for the fact that the weight of the Rotavator in the raised position, and will lighten the front of the tractor. This is particularly important when driving on steep road.
- When traveling on the road at night, ensure that the width of the Rotavator is within the legal limits for your country. Check if all head lights, tail lights and the rear work lights are on. In some countries, a revolving orange beacon is also required when traveling on the road.

Maintenance after each use

- After finishing work, wash the Rotavator and check the oil and the transmission. Grease any points fitted with a grease nipple, and where possible. Store the machine under cover.
- Ensure that the machine is stable when removed from the tractor, and is standing at a height which makes putting it back on the tractor easy. To ensure that playing children are not harmed by any movement of the Rotavator, use props to stabilize any instability of the machine.
- For long term storage, fully service and check the machine before placing it under cover. (Long exposure to adverse weather can shorten the working life of some components in the machine)

SAFETY & INSTRUCTIONAL DECALS

ATTENTION! BE ALERT! YOUR SAFETY IS INVOLVED!
Replace Immediately If Damaged!



Follow all safety rules and safety decal information.



Blade contact or thrown objects can cause serious injury or death.

Keep bystanders away.



Do not put your hands under or into rotavator when engine is running.



Do not put your feet under or into rotavator and keep safe distance.



Do not work under the machine without blocking prevents equipment.



Be extremely careful handling various parts of the machine. They are heavy and hands, fingers could be crushed or pinched between tractor and implement

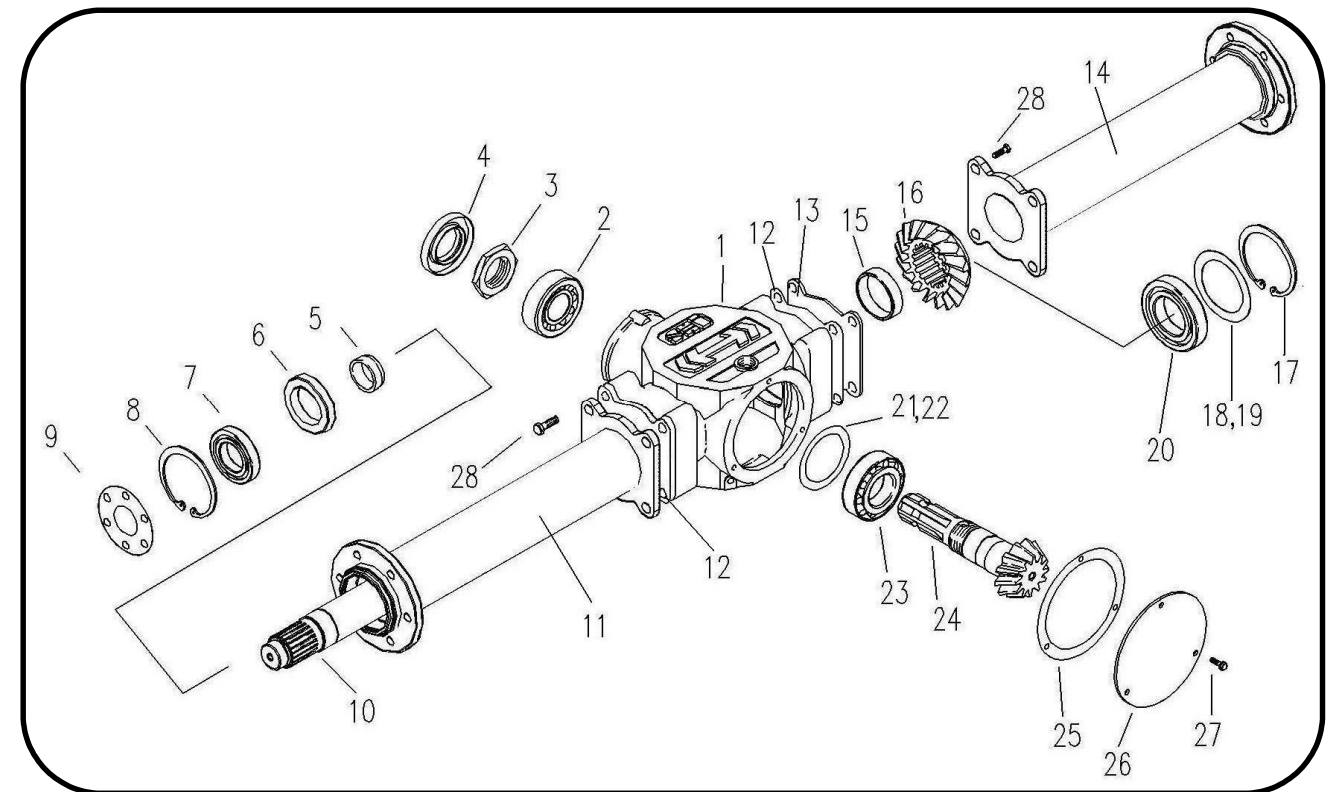


Keep away from rotating parts while in operation.



Do not ride or stay on implement while in operation or when it is being moved.

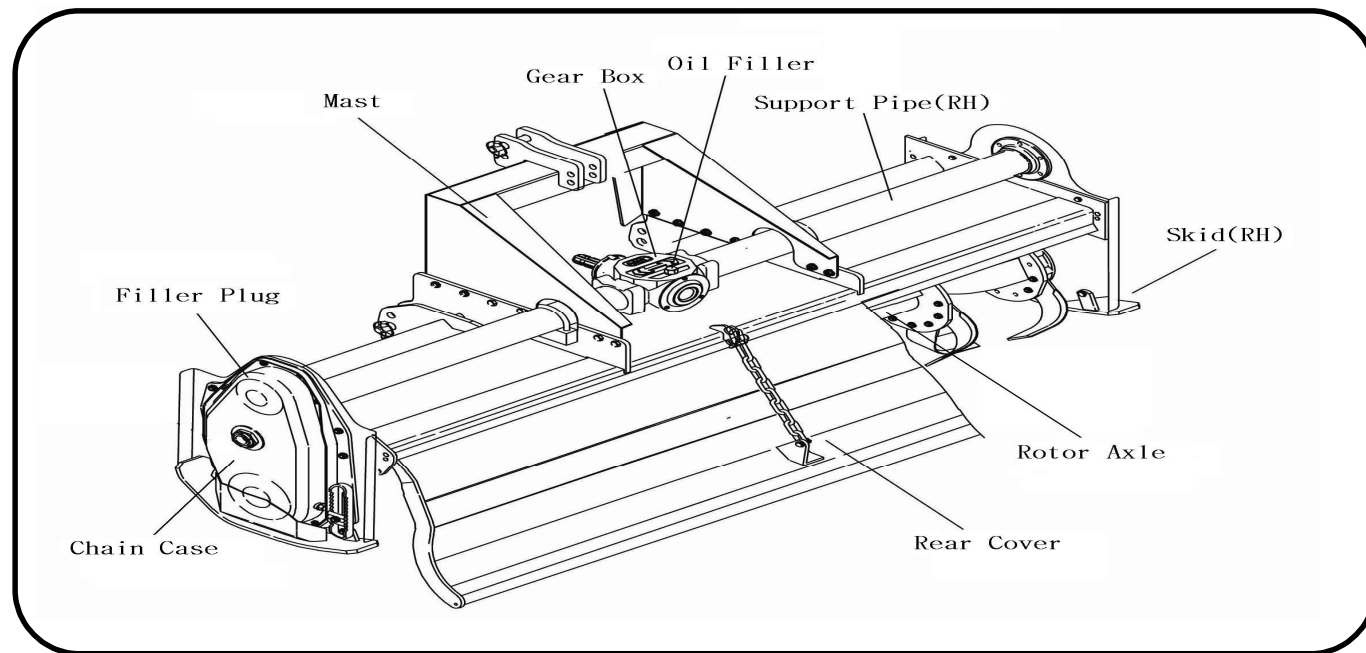
◆ SM PART LIST (Gear Box Group) ◆



No.	Part No.	Part Name	Spec.
1	WR101 – 102	Gear Box	
2	WR101 – 170	Taper roller bearing	#32208
3	WR101 – 174	Hard rock nut	M40*15
4	WR101 – 163	Oil seal	TC358010
5	WR101 – 169	Collar	D50*d35*15
6	WR101 – 163	Oil seal	TC356810
7	WR101 – 152	Ball bearing	#6207T
8	WR101 – 156	Snap ring	C75
9	WR101 – 271	Packing	1T
10	WR101 – 101	Drive Shaft	
11	WR101 – 202	Support Pipe(LH)	
12	WR101 – 171	Packing	1T
13	WR101 – 204	Support Pipe cover	
14	WR101 – 201	Support Pipe(RH)	
15	WR101 – 169	Collar	Ø40*Ø32*15
16	WR101 – 107	Bevel Gear	M5–22T
17	WR101 – 156	Snap ring	C30
18	WR101 – 111	Shim	0.2T
19	WR101 – 111	Shim	0.3T
20	WR101 – 152	Ball bearing	#6210

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◆ THE STRUCTURE OF ROTAVATOR ◆



◆ CHECKING OIL ◆

Type	Checking Part	Capacity	Lubricant	Checking Frequency				Method
				Daily	50Hours	100Hours	200Hours	
SM	Gear Box	0.8L	Gear Oil SAE 90					Supplement and change the oil after checking the optimum and viscosity with oil gauge
	Chain Case	0.8L			△		○	
	Bearing Case Cover	0.12L						

As with all mechanical equipment, the running in period is critical in ensuring a maximum trouble free service life of the machine.

While running in minute, metal particles can be generated from the bedding in of components.

To remove these particles and any other impurities, it is very important that after 50 hours all oils are drained.

As with all oil changes, Gear boxes and gear or chain cases should be drained while the oil is at operating temperature and any impurities are suspended in the oil.

This allows all of them to be removed.

Note on service

- Always use the recommended oil and do not replace it with grease.
- Stop the Rotavator and allow the oil to settle before checking the oil level.
- Always clean around the area where oil level checks are made on both gearboxes and gear cases to avoid contamination.
- Always change oils when they are at operating temperature to ensure removal of any impurities.
- Use only oil from reputable manufacturers and never recycled oil.

◆ TROUBLE SHOOTING CHART ◆

In the even of any problem, it is very important to deal with the problem as quickly as possible to avoid further problems.

To assist with this, the following trouble shooting chart deals with a range of items, the symptoms and the way to rectify the problem for anything not covered by this chart, please consult your local dealer.

Problem	Part	Symptom	Cause	Corrective Action
	Spline	Noisy	Lack of Grease	Grease it
PTO Shaft	Universal Joint	Vibration	Not aligned	Align Joint
		Vibration Breakage	Improper Angle	Operate at correct angles and not in the raised position
Gear Box	Gear / Bearing	Noisy	Lack of Oil	Drain, flush and refill
		Broken Gear or Bearing	Lack of Oil or overloading	Replace parts clean and fill with oil
Chain Case	Chain	Chain Failure	Broken master link	Replace link
			Chain Worn out	Replace Chain
		Chain tension device	Overload / Lack of Oil	Replace faulty parts Drain oil
Gear Case	Gear	Gear failure or noise		
Blade Shaft	Blade	Broken	Stony soil / overload	Replace blades work within capacity
	Flange	broken / Distorted	Hit obstacle or severe overload	Replace shaft
All Parts containing oil		Oil leaks	Loose Bolts Faulty gasket Faulty seal Faulty o-ring	Tighten Replace Replace Replace

◆ DEMENSION AND SPECIFICATION ◆

Model	Body(mm)			Weight (kg)	Flange (pcs)	Blade (pcs)	Working Width (mm)	Tractor (HP)
	Length	Width	Height					
WR800SM	1000	840	800	158	3	18	800	16 – 32
WR1000SM	1200	840	800	162	4	24	1000	18 – 33
WR1250SM	1420	840	800	170	5	30	1250	18 – 34
WR1350SM	1520	840	800	190	5	30	1350	30 – 36
WR1450SM	1620	840	800	210	6	30	1450	32 – 38
WR1550SM	1720	840	800	230	6	36	1550	35 – 40

◆ ROTAVATOR ADJUSTMENT ◆

Varying the pressure on the rear cover

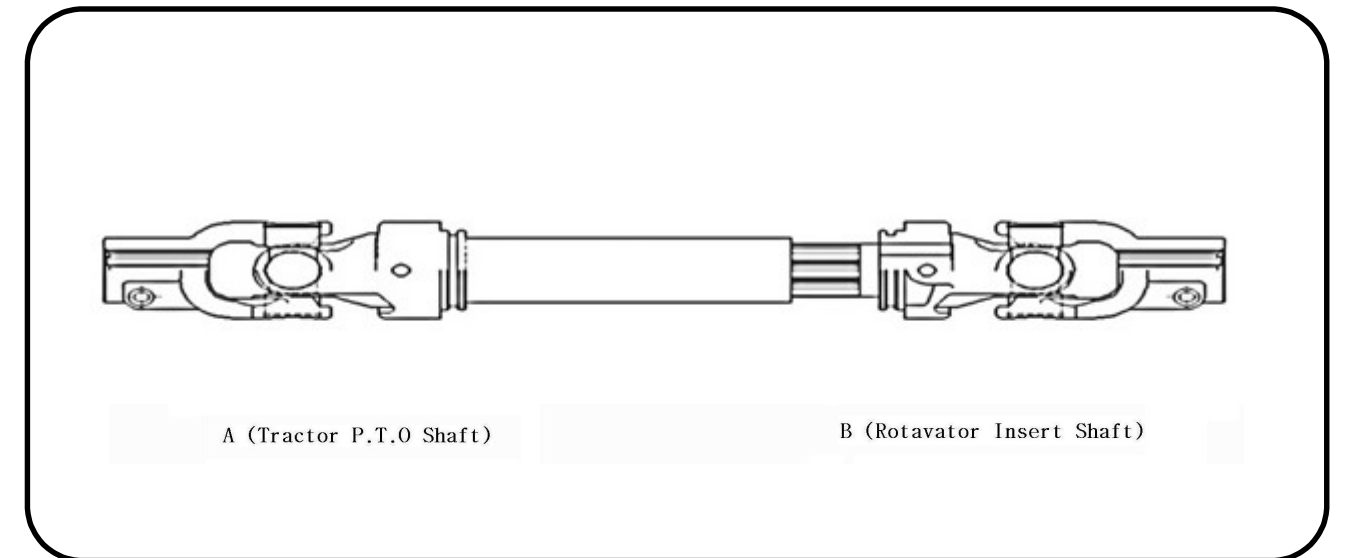
For all type Rotavator the rear cover can be adjusted to cater for a range of conditions.

- For a rough wet field, adjust the springs so the weight of the cover itself gives a smooth even result.
- For clean dry land, adjust the springs on the rear cover to level the tilled soil and produce the seed bed required.
- For stony conditions or a damp field with large lumps of soil, adjust the downward pressure on the springs and adjust the top link so the rear cover is fractionally above the soil.
- To replace Rotavator blades remove the springs and spring nods on the rear cover and raise the cover to its highest point and secure it.
Raise the rotavator with the three point linkage and make sure the PTO is disengaged.
Stop the engine, apply the brakes remove the key and place safety stands under the rotavator.
Replace the blades with genuine WECAN replacement blades ensuring they are fitted in the same way as the originals to ensure balance then remove all stands, lower the rotavator to the ground and replace the spring rods and springs.

Adjusting the Rotavator Skid plate

- The Purpose of the skid plate is to allow operation at the correct depth and to protect gear and bearing cases.
- Adjustment Loosen the skid plate retaining bolts and set the skid plate to the correct height, tighten the bolts to an even tension.
※ Make certain that the adjustment is to the same height on both sides

◆ CONNECTING THE PTO SHAFT ◆



- Ensure that the universal joints at each end of the PTO shaft are in alignment as shown in the drawing.
If they are not, rectify the problem before attempting to fit the shaft.
(when universal joints on a PTO shaft are not correctly aligned they will cause severe vibration and prolonged use without correction will destroy the PTO shaft)
- Fit the PTO shaft to the shaft on the Rotavator and ensure that the quick release button or retaining pin/bolt is secure.
- Now fit the other universal joint to the tractor PTO outlet and again ensure that the quick release button or retaining pin/bolt is secure.
- Raise the Rotavator approx"(10cm) of the ground and adjust the sway chains (or bars) so the Rotavator is central behind the tractor and the tractor PTO shaft and the Rotavator input shaft are as near as possible to being in line.
- Raise and lower the Rotavator gently with the three point linkage to ensure the sway chains are adjusted correctly for a range of heights.
- As a final check lower the Rotavator until it is just in the ground and engage the PTO and increase revolutions for 540 rpm PTO speed. Check that there is no vibration then starting the tillage.
- It is very important that the Rotavator is not operated in the raised position as this will damage the universal joints or the PTO shaft or both. Always stop the PTO before raising the Rotavator.
(Some modern tractors have an automatic setting on the PTO and it is recommended that this be used where it is fitted)