

INNOVATION WORKING FOR YOU

RR60 & RR60PTO18G

Roto-Rake Operator and Parts Manual



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Record your prod	luct information for future reference:
Model Number: _	
Serial Number: _	
In Service Date:	
Sold By:	

INTRODUCTION

Thank you for choosing the REIST RR60 / RR60PTO18G ROTO-RAKE.

We feel confident that this equipment will meet your expectations in workmanship, reliability and performance when used as designed. This manual is to assist you with the safe operation of the REIST ROTO-RAKE. It also has a parts list to help you when replacement parts are required. Any person who will be assembling, attaching, maintaining, or operating this product and the prime mover to which it is attached, are required to read and completely understand the information and instructions contained in this manual and that of the prime mover. Always obtain further assistance by contacting the dealer from which this product was purchased or by contacting REIST Industries at the telephone number or address below. Keep this manual available for reference whenever this product is being handled or used and we recommend that it is reviewed periodically and before seasonal use. Provide this manual to any new owners and/or operators and ensure they fully understand the safe operation of this equipment before it is placed in service.

Replacement copies of this manual are available for downloading at: www.reistindustries.com

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The illustrations and information contained within this manual were current at the time of publication. Under our policy of continuous improvement, we reserve the right to change specifications and designs without prior notice. The illustrations do not necessarily show the standard version of product offered by REIST Industries.

PRODUCT CONFIGURATION

To ensure that the ROTO-RAKE is matched to the right prime mover, REIST ROTO-RAKE models are as follows:

ROTO-RAKE

Model	Working Width	GPM	Max PSI	Mount	Pounds	Kilograms
RR60	60"	18 to 35	3000	Skid Steer	1150	520

With optional Valve Manifold add 120 lbs (55 kg)

PTO ROTO-RAKE

Model	Working Width	PTO Spline & RPM	Нр	TPH Mount Cat	Pounds	Kilograms
RR60PTO18G	60"	540	35 min.	1 & 2	1350	615



Exceeding the recommended specifications can result in damage to the equipment and will void all REIST Industries warranties.

The following references are used throughout this Operator's and Parts Manual:

Attachment, Implement	Refers to the ROTO-RAKE whether attached or separate from the prime mover
Prime Mover	The engine-driven machine to which this product is attached
Equipment	Refers to the Implement and or prime mover whether separate or
	connected
WARNING,	A notice that relates to the safe and efficient operation of the ROTO-
DANGER,	RAKE or prime mover. Read and understand the reference before
IMPORTANT	attaching or operating the ROTO-RAKE or the prime mover.

GENERAL SAFETY PRECAUTIONS

Careful operation is the best assurance against accidents. It is the owner's responsibility to make sure that all operators read and understand this manual and follow the recommendations, cautions and warnings before connecting to a prime mover and operating the equipment. The REIST ROTO-RAKE was designed for use to grade and level all types of soil including stone dust, gravel or similar products.

Familiarize yourself with all controls and know how to quickly stop the equipment and all rotating parts in the case of an emergency.

Never let an untrained person or a child operate equipment.



WARNING!

DO NOT MODIFY THE ROTO-RAKE OR PRIME MOVER

Modifications may weaken the integrity of the ROTO-RAKE and may impair the operation, safety, and performance of the product. When making repairs, only qualified technicians using the manufacturer's genuine parts, following authorized instructions, shall attempt the repair. Never modify any ROPS (Roll Over Protection Structure) or FOPS (Falling Object Protective Structure) equipment or other safety device or remove guarding. Any modifications must be sanctioned in writing by an authorized representative of the manufacturer.



WARNING!

MAINTAIN AND REPAIR EQUIPMENT SAFELY

- Do not wear loose clothing, or any accessories that can catch in moving parts
- If you have long hair, cover or secure it so that it does not become entangled in the equipment
- Work on a level surface in a well-lit area.
- Always lower raised equipment to the ground or securely support it to prevent unintentional movement
- Remove and retain the prime mover's ignition key
- Use the correct tool for the job at hand. Make sure they are in good condition for the task required
- Wear the protective equipment specified by the tool manufacturer
- Use care when working on hydraulic systems and understand how to check for and release trapped hydraulic pressure

GENERAL SAFETY PRECAUTIONS



STAY CLEAR OF ROTATING OBJECTS

Keep hands, feet and clothing away from power driven rotating parts.



Never use your hands to clear if clogged. Never allow anyone to reach into the rotor housing. The rotor can crush and/or dismember. Keep everyone clear of the rotor until the prime mover engine is off and the hydraulic pressure has been relieved.



WARNING!

READ OPERATOR'S MANUAL BEFORE OPERATING

Do not operate equipment until you are completely trained by a qualified operator in how to use the controls, understand the machine's capabilities, dimensions, and all safety requirements. Refer to your operator's manual for these instructions.

- Do not operate an engine in confined or non-ventilated area
- Do not perform adjustments or repairs with the engine running
- Always lower raised equipment to the ground or securely support it to prevent unintentional movement
- Do not operate on excessive inclines or side slopes know the limitations of the prime mover – be careful when turning on slopes as a rollover condition may exist
- Never carry passengers
- Keep bystanders away from the machine when in operation
- Be aware of pedestrians
- Know how to quickly stop the equipment and all rotating parts in the case of an emergency
- Stop the prime mover, lower implements and turn off the engine before dismounting
- Refer to the prime mover's Operator's Manual for additional information

OPERATION AND TRANSPORTATION ON PUBLIC ROADS AND AREAS

Always adhere to the local laws and regulations concerning traveling or operating on public roadways and areas. Clean all lights, reflectors and mirrors ensuring that all lighting is in working order before moving. Know the area! i.e. Elevations, steep side drop offs. Watch out for pedestrians and use caution when approaching pedestrians, hazardous objects (stones, etc.) may inadvertently be discharged. Do not engage or disengage the PTO while roading. Always be alert while transporting or operating the equipment. Select a safe ground speed when transporting from one area to another. When operating, or driving on roadways, travel in such a way that faster moving vehicles may pass you safely.

SAFETY DECALS

Contact REIST Industries if replacement decals are required.

DECAL PART NUMBERS

Item Part Number Description

RD107 REIST Decal

RD115 Made in Canada Decal

RD132 RotoRake Decal

RR60 RD134 RR60 Decal

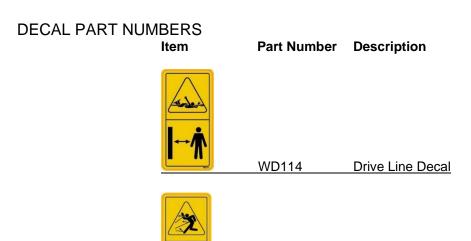
LEMINA. OHYANIO

Serial Serial Number Decal

WD111 WARNING Rotating Knives & Spikes

WD112 Read Manual Decal

SAFETY DECALS . . . cont'd



MAINTENANCE

Refer to the General Safety Precautions, page 5 of this manual before performing any maintenance.

 Always ensure the ROTO-RAKE is properly installed, the prime mover is positioned on a level surface with the park brake set and the ROTO-RAKE positioned on the ground.

Flying Objects Decal

2. Shut-off the engine and remove and retain the ignition key

WD116

- 3. Chock the wheels to prevent movement and release residual hydraulic pressure
- 4. Grease hinge points every 50 hrs.
- 5. At the beginning of each season, ensure that all fasteners are properly torqued, all safety guards are in place and that operator's manual is reviewed and understood
- 6. At the end of season, perform all maintenance activities protect exposed hose ends and the PTO drive splines (if equipped). Always check for missing or damaged parts and repair as required

ADDITIONAL MAINTENANCE FOR THE PTO18G SERIES

- 1. Check oil level in sight glass. Use a Universal hydraulic oil if top up is required.
- 2. Change filter as instructed on the Oil Filter Maintenance page (9).
- 3. Grease PTO crosses if applicable daily (or 8 hours of operation) with EP2

PTO18G OIL FILTER MAINTENANCE

In-tank Filter Servicing



Check the filter service indicator.

 Check to see that the OEM specified service interval has been reached or that the service indicator shows that the filter is due for servicing.



Turn system off and release pressure.

- Ensure that the hydraulic system is turned off.
- Check that there is no pressure present.







Remove the used filter, gasket and spring, if applicable.

- · Remove the filter as gently as possible.
- Avoid contaminant dropping into the clean side of the housing.
- Properly dispose of the cartridge, seal and spring.



Clean the filter mount, cap, inside of the housing and cover.

 Clean out any sediment from the inside of the filter housing.



 Wipe away any sediment on the outside of the filter cover.





 Check the new filter you will be installing for any shipping and handling damage.



Lubricate the filter gasket and cover seal.

 Lubricate the new filter cartridge O-ring and cover seal with clean system oil.



Install new filter and spring, if applicable.





 Refit the cover following any instructions given.



Bleed the system and check for leaks.

STANDARD SETUP INSTRUCTIONS

Improper installation, operation, or maintenance of this equipment could result in serious injury or death. FOLLOW ALL SAFETY INSTRUCTIONS IN THIS MANUAL AND THE PRIME MOVER'S MANUAL(S).

Refer to the operator's manual(s) for your prime mover and follow the mounting instructions contained therein.



STAY CLEAR OF ROTATING OBJECTS

Keep hands, feet and clothing away from power driven rotating parts.

SKID-STEER HOOKUP INSTRUCTIONS

The standard ROTO-Rake has a universal Skid Steer mount. Attach Skid steer to Roto-Rake and attach the two Hydraulic hoses. Different makes of skid steers have different wiring configurations. You need the correct wiring harness.

OPERATION OF ROTO-RAKE

- Be sure the area is clear of all bystanders
- Refer to the prime mover starting instructions
- Lower ROTO-RAKE to ground, putting skid steer arms in float position.
- For leveling control, you want the weight on the wheels of the Roto-Rake
- Tip the bucket cylinders of the skid steer until tips of rotor are at desired depth.

PTO18G SETUP INSTRUCTIONS

PTO18G HOOKUP INSTRUCTIONS

The PTO ROTO-RAKE hitch has category one or two. Use the proper pin sizes when attaching the ROTO-RAKE to the prime mover. Do not attach the PTO driveline at this time.

- a. Always ensure that the PTO shaft is proper length! Make sure PTO shaft doesn't bottom out or come apart throughout the range of movement for the 3 PTH.
- b. Connect the ROTO-RAKE to the lower arms of the 3-point hitch. Be sure the 3-point hitch is set in the non-sway position (See prime mover manual for details)
- c. Measure the distance from the end of the prime mover PTO shaft to the end of the gear box shaft on the ROTO-RAKE
- d. Lay driveline on flat surface and measure the distance from one end to the other in the most collapsed position
- e. If distance from the end of the prime mover PTO shaft to the end of the gear box shaft on the ROTO-RAKE is greater than 9" more than the overall length of the collapsed driveline, the driveline may be too short. When the PTO shaft is at the longest position there should be a minimum of 3" overlap.
- f. Once the driveline is installed, connect the upper link
- g. When it is safe to do so, slowly lift the ROTO-RAKE thru the complete arc of the 3-point mount. Make sure driveline does not bottom out at anytime throughout the arc. Make sure the driveline shields are in place and do not separate

-Note a 540 rpm PTO drive has 6 splines or teeth and is 1 3/4 inch in diameter.

OPERATION OF PTO ROTO-RAKE

- Be sure the area is clear of all bystanders
- Refer to the prime mover starting instructions
- Always use proper pin and bushing sizes when attaching Roto-Rake to tractor.
- Stabilized 3 PTH arms to centre.
- Lower ROTO-RAKE to ground, putting 3 PTH lever to max. down position.
- Adjust top link until tips of rotor are at desired depth.

GROUND SPEED:

- Travel speed is governed by the condition of the surface being graded.
- The deeper the cut and harder the material the more power is required and the speed has to be adjusted according.

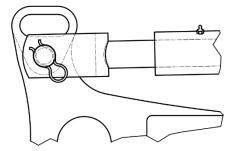
FLOAT SETUP INSTRUCTIONS

The ROTO-RAKE can be used in a float condition that will allow it to follow minor ground contours instead of gouging the terrain with a rigid connection. With the ratchet set so that the Roto Rake is horizontal on level ground, the operator can engage the Float feature.

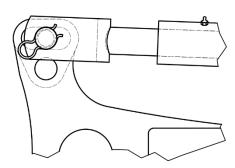
FLOAT SETUP OF ROTO-RAKE

- Remove the locking hairpin from the pin holding the tilt adjuster end in the hole under the slot and pull it out.
- Raise the tilt adjuster end until the clevis hole lines up with the slot and insert the pin.
- Secure the pin in the slot with the hairpin.
- The float position allows the Roto-Rake to tilt and follow minor variations in the contours of the ground.
- The float position allows 5" of up and down movement as the Roto Rake travels across uneven ground.
- The Wheel Attachment may be left either engaged or disengaged at the discretion of the operator.

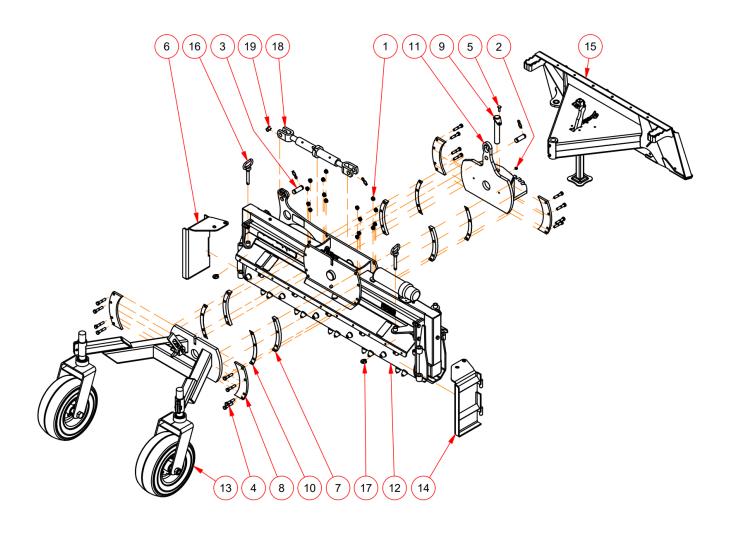
Rigid Position



Float Position

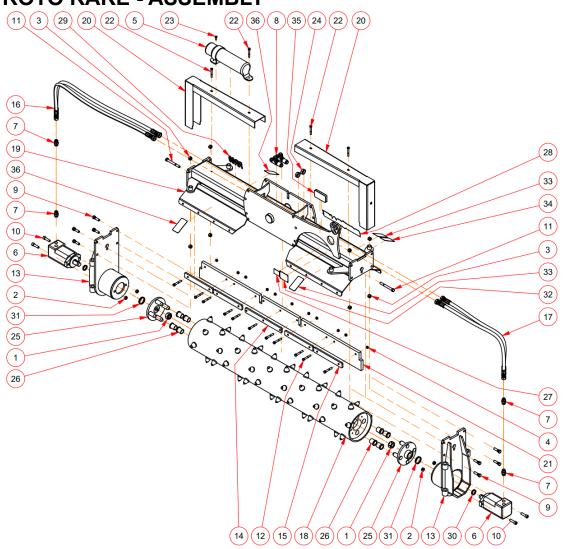


RR60 - STANDARD FEATURES ASSEMBLY



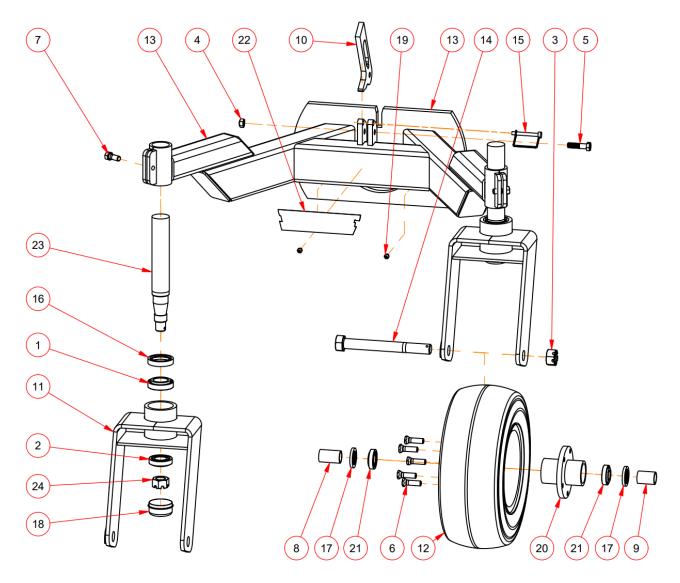
	Parts List			Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION	ITEM	QTY	PART NUMBER	DESCRIPTION
1	16	12FSLN	Flange Nut	10	4	107166	Shim
2	1	38CLN	NC Lock Nut	11	1	107228	Knuckle
3	2	100x225	Pin - 1.00 x 2.375" (Active Length - 3.00" OA)	12	1	114678-AB	Roto Rake 60
4	16	12212	Hex Bolt	13	1	114684	Wheel Attachment RR60
5	1	38114C	Carriage Bolt	14	1	122412	Side Gate Left Assembly
6	1	100183	Side Gate Assembly	15	1	122783	15 Deg Base Swivel Frame Assembly
7	4	103938	Spacer	16	2	384502	Draw Pin 58
8	4	103939	Clamp	17	2	385501	3/16 Lynch Pin
9	1	103944	Pin	18	1	386501	Ratched Jack
				19	4	637856	Hair Pin

RR60 ROTO RAKE - ASSEMBLY



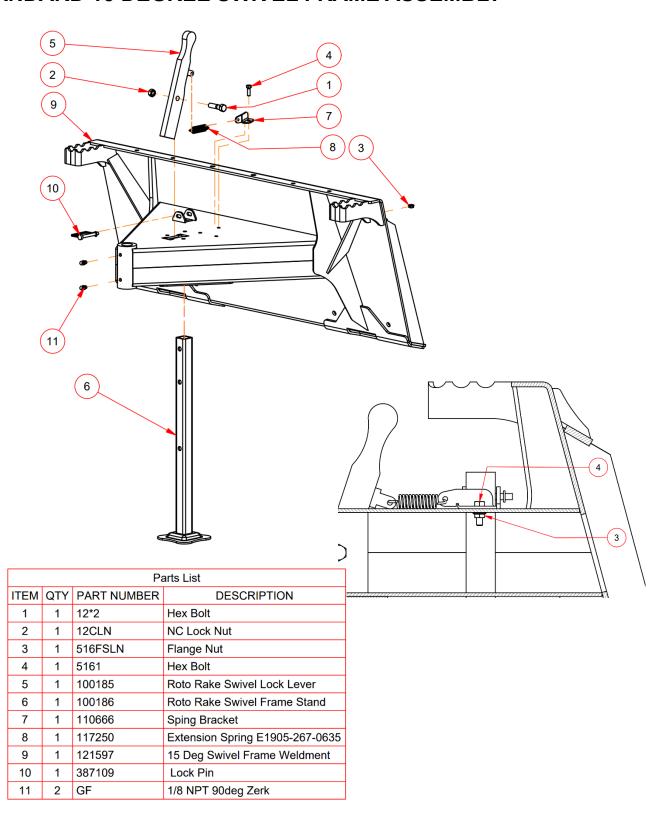
	Detailed.								
	Parts List				Parts List				
ITEM	QTY	PART NUMBER	DESCRIPTION	ITEM	QTY	PART NUMBER	DESCRIPTION		
1	2	1CNF	Slotted Hex Nut	18	1	114676	Rotor 60		
2	4	12CLN	NC Lock Nut	19	1	114679-AB	Roto Rake Frame Weldment 60		
3	8	12NLN	Nylon-Insert Locknut	20	2	114681	Hose Shield 60		
4	11	38CLN	NC Lock Nut	21	1	125611	RR60 Rubber		
5	1	67.222.000	Manual Holder	22	4	516212	Hex Bolt		
6	2	104-4100-006	2000 series hyd motor 2 bolt	23	1	2167121	Self Drilling 14x1 Metal Screw		
7	4	5315*10	Fitting	24	2	HN 1 116 - 12 UN JAM	Hex Jam Nut 1-1/16 - 12 UN		
8	2	5726*12	JIC Bulkhead Run Tee	25	2	HRG04	Rotor Drive Adaptor Weldment		
9	8	12134	Hex Bolt	26	8	MF1-1620-24	Ingus bushing		
10	4	12134CSH	Socket Head	27	1	RD115	Made In Canada Decal		
11	2	12412	Hex Bolt	28	1	RD132	Roto-Rake Decal		
12	11	38212	Hex Bolt	29	1	RD134	RR60 Decal		
13	2	100175	Hyd Motor Mount	30	2	RVA-030	Oil Seal		
14	1	113079	Plate	31	2	RVA-045	Oil Seal		
15	4	114639	Plate	32	1	Serial	Serial # Plate		
16	2	114659	Hydraulic Hose	33	2	WD111	Danger to Feet - Stay Clear of Frontl Decal		
			H24508-08U610-08U612-48	34	1	WD112	WARNING - Read Manual Decal		
17	2	114667	Hydraulic Hose	35	2	WD115	WARNING Pinch Point Decal		
			H24508-08U610-08U612-36	36	2	WD116	WARNING Flying Object Decal		

RR60 WHEEL ASSEMBLY

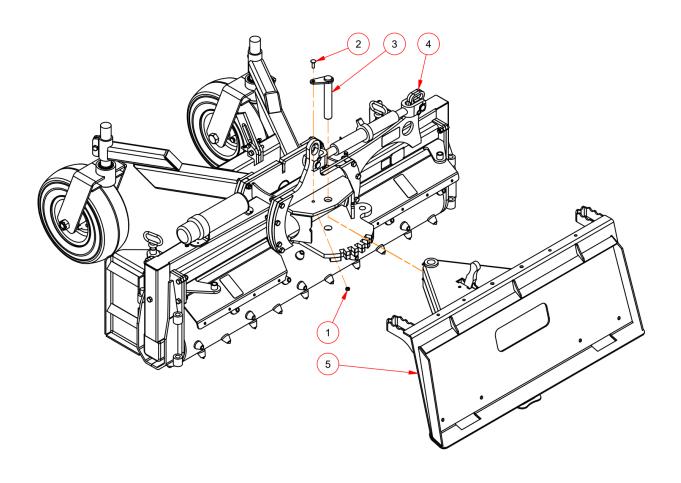


	Parts List			Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION	ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	1.5 x 2.5625 x 0.71 -	Tapered Roller Bearing	12	2	108110	Wheel 16.5x8 5 on 4.5
		LM29749 LM29710X		13	1	114683	Wheel Attachment Frame RR60
2	2	1.25 x 2.328 x 0.625 -	Tapered Roller Bearing	14	2	117443	1-9NF BP Hex Bolt w 3/16 Hole
		LM67045 LM67010		15	1	387109	Lock Pin
3	2	1CNF	Castle Hex Nut	16	2	CR17415	SEAL
4	1	12CLN	NC Lock Nut	17	4	CR523696	Seal
5	1	122	1/2" x 2" Lg Hex Bolt	18	2	D4000	Dust Cap
6	10	500-20	Wheel bolt Bolt	19	2	GF	1/8 NPT ST Zerk
7	2	12114	Hex Bolt	20	2	H010005450	Hub
8	2	107106	Spacer L	21	4	L44643 L44610	Tapered Roller Bearing
9	2	107107	Spacer S	22	1	RD106	Reist Decal
10	1	107229	Locking Plate	23	2	S04000175-1200	Spindle
11	2	107233	Swivel Wheel Weldment	24	2	SJ-114	Slotted Hex Nut

STANDARD 15 DEGREE SWIVEL FRAME ASSEMBLY

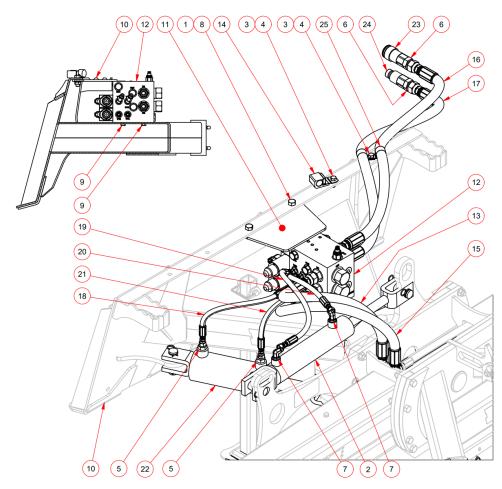


RR60 + 15 DEGREE BASE SWIVEL FRAME ASSEMBLY



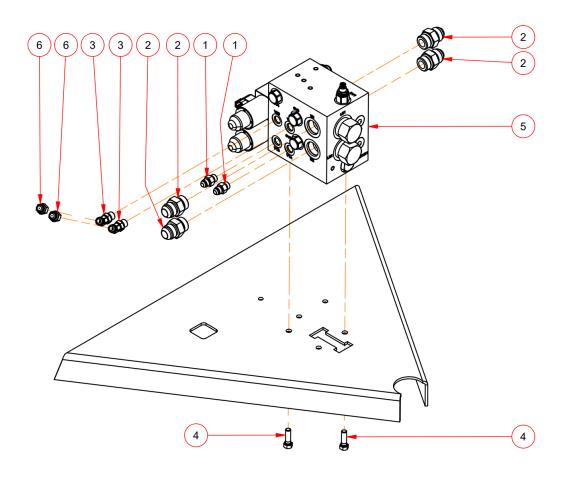
	Parts List					
ITEM	QTY	PART NUMBER	DESCRIPTION			
1	1	38CLN	NC Lock Nut			
2	1	38114C	Carriage Bolt			
3	1	103944	Pin			
4	1	114678-AB	Roto Rake 60			
5	1	122783	15 Deg Base Swivel Frame Assembly			

OPTIONAL ON THE FLY HYDRAULIC VALVE BLOCK



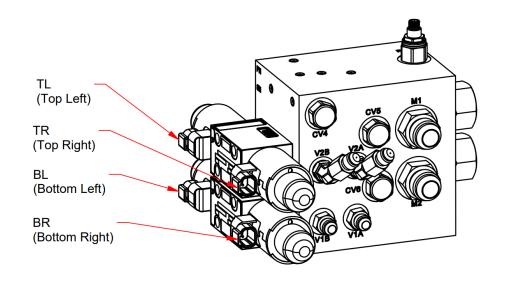
	Parts List			Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION	ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	12FSLN	Flange Nut	16	1	123598	Hydraulic Hose
2	1	20FEM08-NW	Cylinder				H145512-12U612-12U672-34
3	2	38CLN	NC Lock Nut	17	1	123600	Hydraulic Hose
4	2	381	Hex Bolt				H145512-12U612-12U672-34
5	2	5315*6*8	Fitting	18	1	123604	Hydraulic Hose
6	6	5315*12	Fitting				H24504-04U606-04U666-16
7	2	5515*6	90 Elbow Fitting	19	1	123606	Hydraulic Hose
8	2	12114	Hex Bolt				H24504-04U606-04U666-25
9	2	38114	Hex Bolt	20	1	123608	Hydraulic Hose
10	1	121746	15 Deg Hyd Swivel Frame Assembly				H24504-04U606-04U666-17
11	1	121898	Guard Plate	21	1	123610	Hydraulic Hose
12	1	123247	ROTORAKE F Valve Block				H24504-04U606-04U666-14
13	1	123427	Hydraulic Hose	22	1	CL3006-S	3x6 Clevis Cylinder
			H145512-12U612-12U672-26	23	1	FEM501-12F0	Female Flat Face Coupler
14	1	123584	RR Clamp	24	1	FEM502-12FO	Male Flat Face Coupler
15	1	123596	Hydraulic Hose	25	2	HK1713	1" HoseClamp
			H145512-12U612-12U672-30				

OPTIONAL HYDRAULIC VALVE BLOCK DETAILS

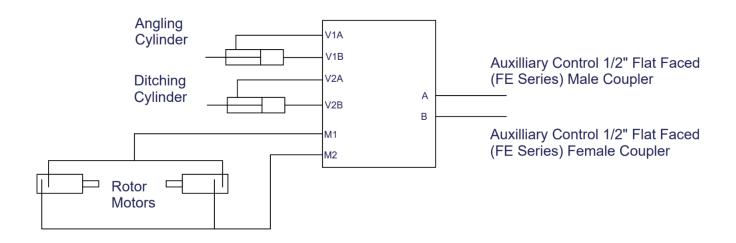


	Parts List					
ITEM	QTY	PART NUMBER	DESCRIPTION			
1	2	5315*6	Fitting			
2	4	5315*12	Fitting			
3	2	5365*6	45 Elbow JIC/Straight			
4	2	38114	Hex Bolt			
5	1	123247	ROTORAKE F Valve Block			
6	2	RES5100	0606-032 Restrictor Fitting			

OPTIONAL HYDRAULIC VALVE BLOCK DETAILS

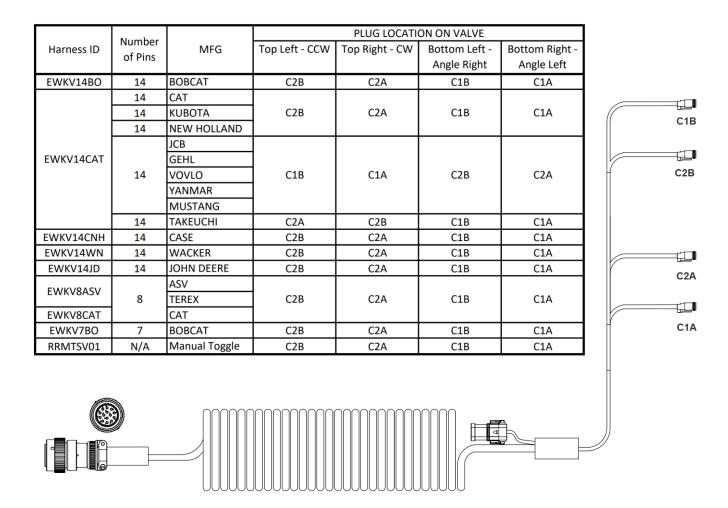


Solenoid operates Port		RotoRake Reaction
Top Right	V2A	Tilt Clock Wise
Top Left	V2B	Tilt Counter Clock Wise
Bottom Left	V1B	Angle Right
Bottom Right	V1A	Angle Left



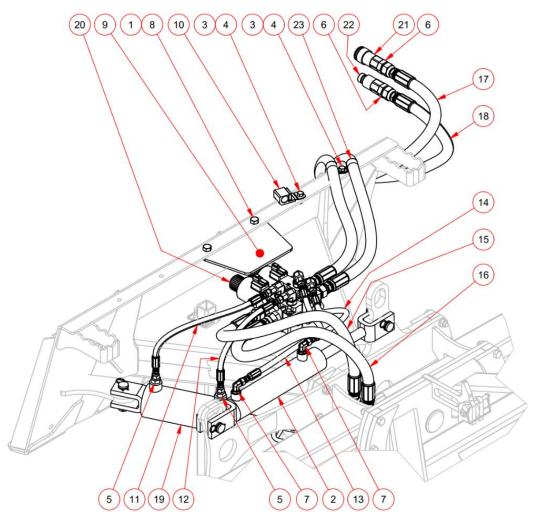
OPTIONAL VALVE BLOCK WIRING HARNESSES

Use wiring harnesses starting with part number EWKV#### to connect the Valve Manifold to the prime mover.



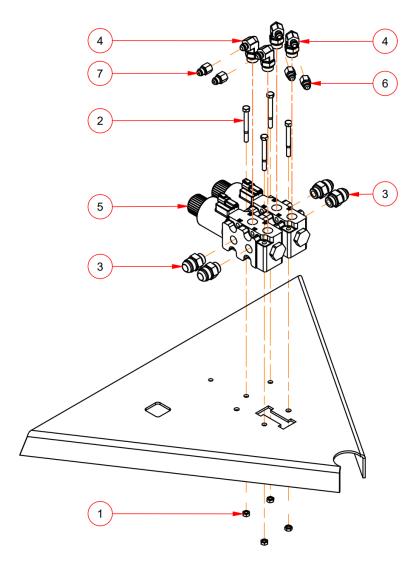
Showing 14 Pin Plug

OPTIONAL DIVERTOR VALVE



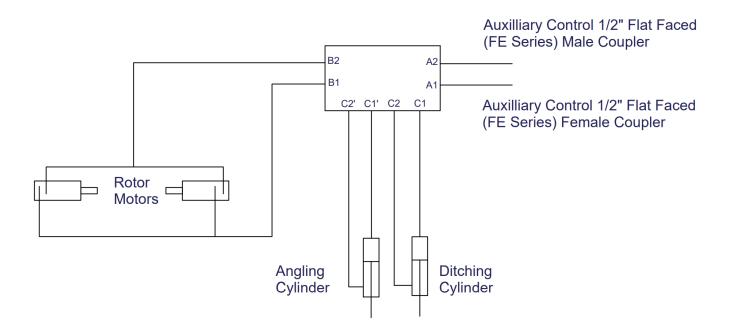
Parts List			Parts List				
ITEM	QTY	PART NUMBER	DESCRIPTION	ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	12FSLN	Flange Nut	14	1	124671	Hydraulic Hose
2	1	20FEM08-NW	Cylinder				H24504-04U606-04U666-20
3	2	38CLN	NC Lock Nut	15	1.00	124674	Hydraulic Hose
4	2	381	Hex Bolt		0 in		H145512-12U612-12U672-28
5	2	5315*6*8	Fitting	16	1.00	124677	Hydraulic Hose
6	2	5315*12	Fitting		0 in		H145512-12U612-12U672-29
7	2	5515*6	90 Elbow Fitting	17	1.00	124680	Hydraulic Hose
8	2	12114	Hex Bolt		0 in		H145512-12U612-12U672-32
9	1	121898	Guard Plate	18	1.00	124682	Hydraulic Hose
10	1	123584	RR Clamp		0 in		H145512-12U612-12U672-32
11	1.00	124657	Hydraulic Hose	19	1	CL3006-S	3x6 Clevis Cylinder
	0 in		H24504-04U606-04U666-18	20	1	DFE140-6	Walvoil 6 Way Solenoid Control
12	1.00	124663	Hydraulic Hose				Sectional Diverter Valve
	0 in		H24504-04U606-04U666-15	21	1	FEM501-12F0	Female Flat Face Coupler
13	1.00	124665	Hydraulic Hose	22	1	FEM502-12FO	Male Flat Face Coupler
	0 in		H24504-04U606-04U666-28	23	2	HK1713	1 "HoseClamp

OPTIONAL DIVERTOR VALVE ASSEMBLY DETAILS



	Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION	
1	4	516CLN	NC Lock Nut	
2	4	5163	Hex Bolt	
3	4	5315*12*10	Fitting	
4	4	5515*6*10	90 Elbow Fitting	
5	1	DFE 140-8B	Walvoil 6 Way Solenoid Control	
			Sectional Diverter Valve	
6	2	RES5100	0606-032 Restrictor Fitting	
7	2	RES5105	0606-063-Restrictor Fitting	

OPTIONAL DIVERTOR VALVE DETAILS & SCHEMATIC

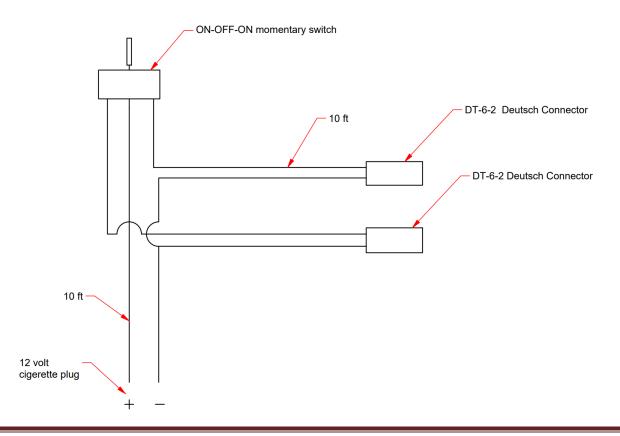


CURRENT WIRING HARNESSES

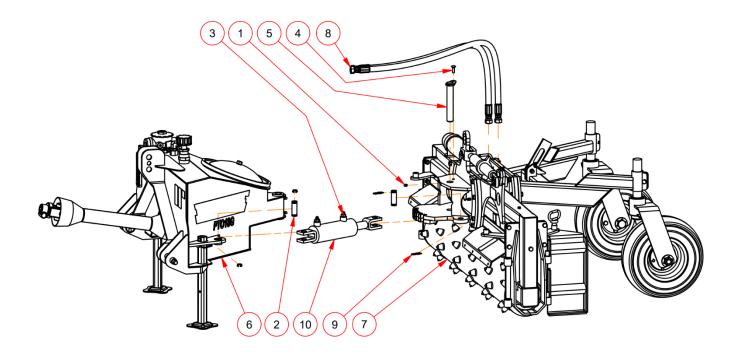
Use wiring harnesses starting with part number EWKD#### to connect the Walvoil 6 Way Solenoid Control Sectional Divertor Valve to the prime mover.

Divertor Wiring Harnesses			
Part Number	Description		
EWKD14BO	Bobcat Skidsteers 14 Pin Wiring Kit (Deutsch Plug)		
EWKD14CAT	Caterpillar & Gehl Skidsteers 14 Pin Wiring Kit (Deutsch Plug)		
EWKD14CNH	Case & New Holland Skidsteers 14 Pin Wiring Kit (Deutsch Plug)		
EWKD14JCB	JCB & Volvo Skidsteers 14 Pin Wiring Kit (Deutsch Plug)		
EWKD14JD	John Deere 244J Loader & John Deere Skidsteers 14 Pin Wiring Kit (Deutsch Plug)		
EWKD14KU	Kubota & Wacker Neuson Skidsteers 14 Pin Wiring Kit Deutsch Plug)		
EWKD14TA	Takeuchi Skidsteers 14 Pin Wiring Kit (Deutsch Plug)		
EWKD7BO	Bobcat Skidsteers 7 Pin Wiring Kit (Deutsch Plug)		

Use the wired remote manual toggle switch (part number RRMTS01) to operate the divertor valve from the prime mover.

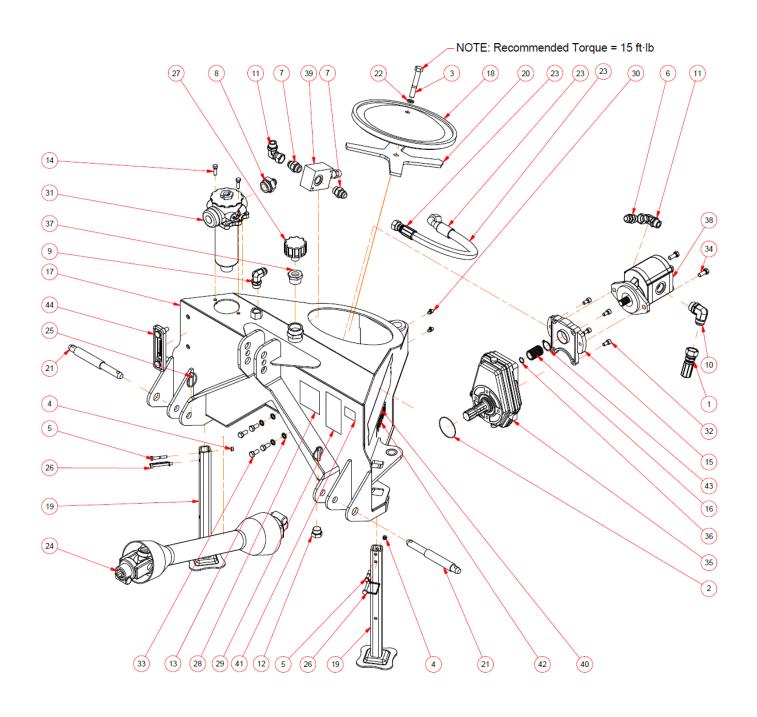


RR60PTO18G - ASSEMBLY



	Parts List				
ITEM	QTY	PART NUMBER	DESCRIPTION		
1	1	38CLN	NC Lock Nut		
2	2	100x225	Pin - 1.00 x 2.375" (Active Length - 3.00" OA)		
3	2	5315*6*8	Fitting		
4	1	38114C	Carriage Bolt		
5	1	103944	Pin		
6	1	111649	Base Swivel Frame Oil Tank		
7	1	114678-AB	Roto Rake 60		
8	1	114958	Hydraulic Hose-H14512-12U612-12U612-48		
9	4	637856	Hair Pin		
10	1	CL3006-S	3x6 Clevis Cylinder		

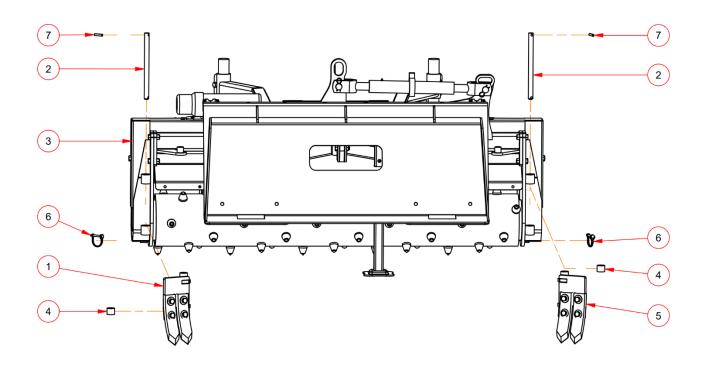
PTO18G - EXPLODED VIEW



PTO18G - PARTS LIST

Parts List				
ITEM	QTY	PART NUMBER	DESCRIPTION	
1	1	12U616	Female JIC Swivel Hose End	
2	1	041	O Ring	
3	1	58*4	Hex Bolt	
4	2	516N	Hex Nut	
5	2	5162	Hex Bolt	
6	1	5302*12	JIC Nipple	
7	2	5315*12	Fitting	
8	1	5315*12*20	Fitting	
9	1	5515*12	90 Elbow Fitting	
10	1	5515*16	90 Elbow Fitting	
11	2	6809-1212	SAE JIC Elbow	
12	1	7237*12	Oring Male Plug (-12)	
13	4	9900-04	Bonded Seal 14BSPP (12mm)	
14	2	38114	Hex Bolt	
15	1	110485	Flange MB30-S5	
16	1	110486-	Splined Coupling MB30-04	
17	1	111650	Base Swivel Frame Oil Tank Weldment	
18	1	111684	End Cover 5065	
19	2	111686	Stand	
20	1	111688	Spider Weldment	
21	2	111689	Cat 1 & 2 Pin	
22	1	112163	Plastic Washer 58	
23	1	114954	Hydraulic Hose	
			H14512-12U672-12U612-26-1/2	
24	1	225332	T40-061_1-38x6 Slide Collar QD 2 Ends	
25	2	385507	7/16 Lynch Pin	
26	2	387109	Lock Pin	
27	1	ABS40N12	3/4" Breather Cap	
28	1	DD100	Drive Line Decal	
29	1	DW103	Read Manual Decal	
30	2	GF	1/8 NPT 90deg Zerk	
31	1	K040813	Tank Filter_Element P171840	
32	4	M10X20SH	Socket Head Cap Screw - Metric	
33	4	M12x1.75x25	Metric Bolt	
34	2	M12x1.75x30	Metric Bolt	
35	1	MBA30-M6-3.5	Increaser Gearbox-MBA30-M6-3.5(1:3.5)	
36	1	N5000-81	internal retaining ring	
37	1	PFG-00214-0	NPT Reducer	
38	1	PLP30.34SR	Pump Right Hand Rotation	
39	1	RCL12-3000	Relief Valve	
40	2	RD105	Reist Decal	
41	1	RD115	Made In Canada Decal	
42	2	RD137	PTO18G Decal	
43	1	SH-131	External Snap Ring	
44	1	SLT-1214	Level Gauge	

OPTIONAL SIDE CUTTERS - RRSCK

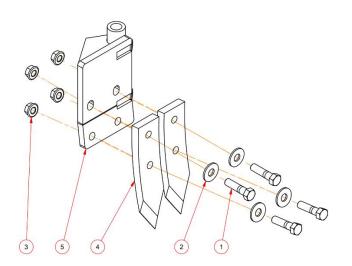


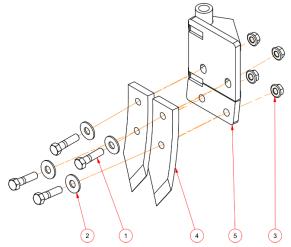
Parts List				
ITEM	QTY	PART NUMBER	DESCRIPTION	
1	1	100192	Plow Attachment	
2	2	100193	Pin	
3	1	114678-AB	Roto Rake 60	
4	2	120359	Spacer Bushing	
5	1	123311	Plow Attachment Left	
6	2	387104	Snapper Pin 1/4 x 1-3/8	
7	2	516112RP	Roll Pin	

Note: Item #4 120359-Spacer Bushing can be placed above or below the Plow Attachments depending on the depth of cut desired.

Side gates and optional side cutters can be exchanged depending on direction of travel.

OPTIONAL PLOW ATTACHMENT ASSEMBLY





Parts List				
ITEM	QTY	PART NUMBER	DESCRIPTION	
1	4	12*2	Hex Bolt	
2	4	12F	Flat Washer	
3	4	12FSLN	Flange Nut	
4	2	1009	5/8x2 Spike Tooth	
5	1	104898	Plow Weldment	

Parts List				
ITEM	QTY	PART NUMBER	DESCRIPTION	
1	4	12*2	Hex Bolt	
2	4	12F	Flat Washer	
3	4	12FSLN	Flange Nut	
4	2	1009	5/8x2 Spike Tooth	
5	1	123310	Plow Weldment Left	

WARRANTY INFORMATION

All new REIST machinery is warranted to be free from defects in material or workmanship, which may cause failure under normal usage and service when used for the purpose intended for a period of 12 months. This warranty applies only to a new REIST product, there being no warranty of any nature in respect to new products that have been modified or altered, repaired, neglected, or used in any way, which, in the opinion of REIST adversely affects its performance.

In the event of failure of a part or parts, and upon inspection, REIST is satisfied that failure is due to defective material or workmanship within 12 calendar months from the date of delivery to an end user, such defective part or parts will be repaired or replaced by REIST Industries Inc. It is the responsibility of the buyer, at his expense, to transport the machine or equipment to the manufacturer service shop or to an authorized service depot or, alternatively, to reimburse REIST for any travel or transportation expense involved in fulfilling this warranty.

When requested by REIST, part or parts shall be returned for inspection, transportation prepaid, to a place designated by REIST. IN NO EVENT SHALL THE BUYER BE ENTITLED TO RECOVER FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING, BUT NOT LIMITED TO, LOSS OF PRODUCT, INCONVENIENCE, RENTAL OR REPLACEMENT EQUIPMENT, LOSS OF PROFIT, OR OTHER COMMERCIAL LOSS.

This warranty becomes void and null if the equipment is modified, breaks down as the result of an accident, is not operated according to manufacturer's recommendations, damaged by negligence or if maintenance has not been carried out as specified.

THIS WARRANTY IS NOT TRANSFERABLE

REIST Industries Inc. 100 Union Street Elmira, Ontario, Canada N3B 3L7