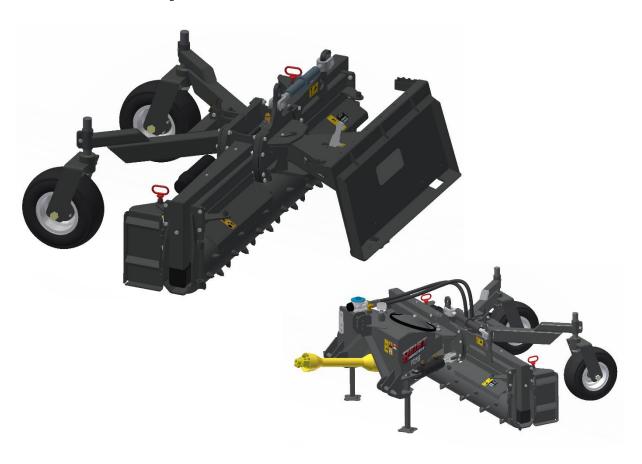


INNOVATION WORKING FOR YOU

RR72 & RR72PTO18G

Roto-Rake Operator and Parts Manual



REIST Industries Inc. 100 Union Street Elmira, Ontario, Canada N3B 3L7 Phone: 519-669-1501 Toll Free: 1-877-467-3478 www.reistindustries.com

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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 RR72 / RR72PTO18G 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 |
|-------|------------------|----------|------------|------------|--------|-----------|
| RR72 | 72" | 18 to 35 | 3000 | Skid Steer | 1200 | 545 |

With optional Valve Manifold add 120 lbs (55 kg)

PTO ROTO-RAKE

| Model | Working Width | PTO Spline & RPM | Нр | TPH Mount Cat | Pounds | Kilograms |
|------------|------------------|------------------------|---------|------------------|--------|-----------|
| RR72PTO18G | 72" | 540 | 35 min. | 1 & 2 | 1600 | 725 |



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, | Refers to the ROTO-RAKE whether attached or separate from the prime |
|-------------|--|
| Implement | 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! ie. 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

RR72 RD135 RR72 Decal

TEMPOSTRIES TO ELECTRIC CONTROL OF THE PROPERTY OF THE PROPERT

WD111 WARNING Rotating Knives & Spikes

WD112 Read Manual Decal

SAFETY DECALS . . . cont'd



Part Number Description



WD114 Drive Line Decal



WD116 Flying Objects Decal

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

The PTO ROTO-RAKE can be attached using either a CAT I, or II – three-point hitch. 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 3/8 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 accordingly.

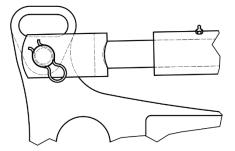
FLOAT SETUP INSTRUCTIONS

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.

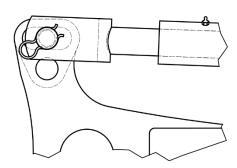
FLOAT SETUP OF ROTO-RAKE

- 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 5-3/4" 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.

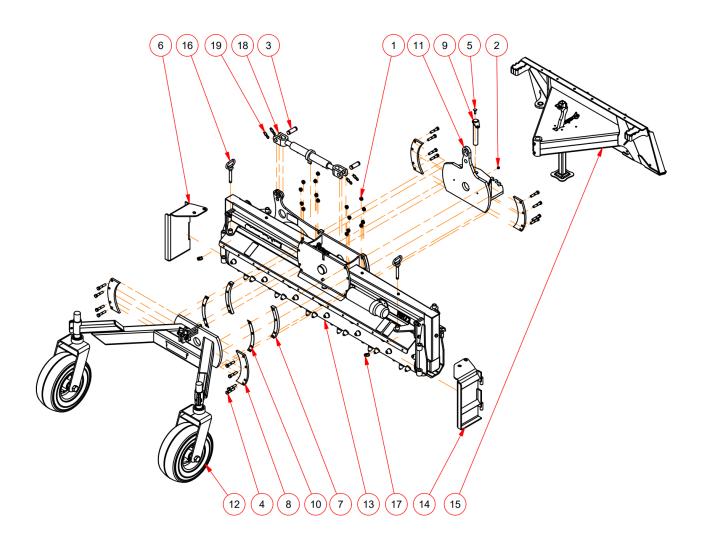
Rigid Position



Float Position

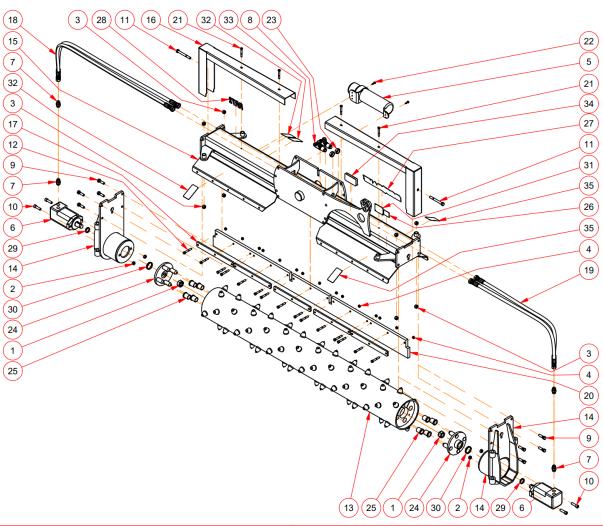


STANDARD FEATURES ASSEMBLY



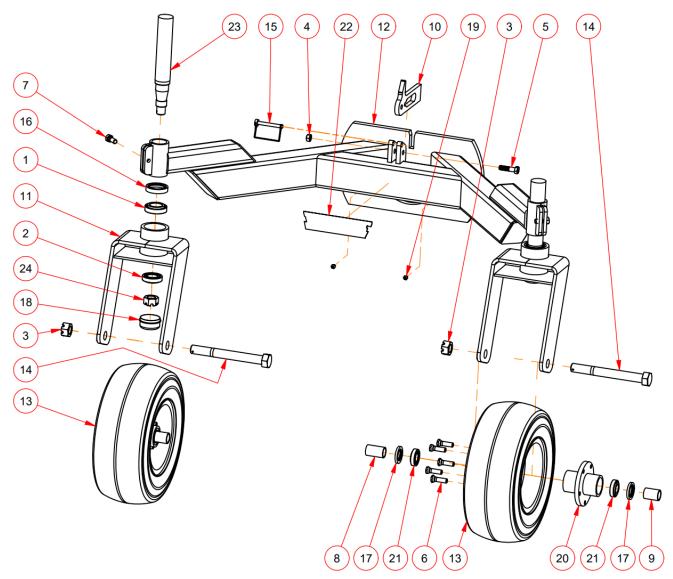
| | Parts List | | | Parts List | | | | |
|------|------------|-------------|--|------------|-----|-------------|---------------------------------------|--|
| ITEM | QTY | PART NUMBER | DESCRIPTION | ITEM | QTY | PART NUMBER | DESCRIPTION | |
| 1 | 16 | 12FSLN | Flange Nut | 11 | 1 | 107228 | Knuckle | |
| 2 | 1 | 38CLN | NC Lock Nut | 12 | 1 | 107237 | Wheel Attachment - RR72, RR84, & RR96 | |
| 3 | 2 | 100x225 | Pin - 1.00 x 2.375" (Active Length - 3.00" OA) | 13 | 1 | 110705-AB | Roto Rake 72 | |
| 4 | 16 | 12212 | Hex Bolt | 14 | 1 | 122412 | Side Gate Left Assembly | |
| 5 | 1 | 38114C | Carriage Bolt | 15 | 1 | 122783 | 15 Deg Base Swivel Frame Assembly | |
| 6 | 1 | 100183 | Side Gate Assembly | 16 | 2 | 384502 | Draw Pin 58 | |
| 7 | 4 | 103938 | Spacer | 17 | 2 | 385501 | 3/16 Lynch Pin | |
| 8 | 4 | 103939 | Clamp | 18 | 1 | 386501 | Ratched Jack | |
| 9 | 1 | 103944 | Pin | 19 | 4 | 637856 | Hair Pin | |
| 10 | 4 | 107166 | Shim | | | | | |

RR72 ROTO RAKE-ASSEMBLY



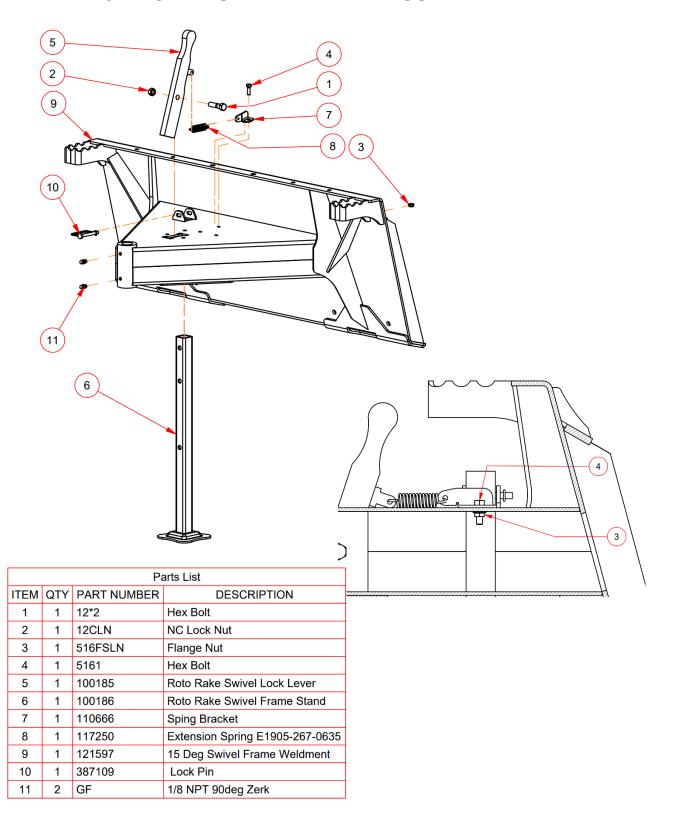
| | Parts List | | Parts List | | | | |
|------|------------|--------------|------------------------------|------|-----|---------------|---|
| ITEM | QTY | PART NUMBER | DESCRIPTION | ITEM | QTY | PART NUMBER | DESCRIPTION |
| 1 | 2 | 1CNF | Slotted Hex Nut | 19 | 2 | 114625 | Hydraulic Hose |
| 2 | 4 | 12CLN | NC Lock Nut | | | | H24508-08U610-08U612-41 |
| 3 | 8 | 12NLN | Nylon-Insert Locknut | 20 | 1 | 125609 | RR72 Rubber |
| 4 | 15 | 38CLN | NC Lock Nut | 21 | 4 | 516212 | Hex Bolt |
| 5 | 1 | 67.222.000 | Manual Holder | 22 | 2 | 2167121 | Self Drilling 14x1 Metal Screw |
| 6 | 2 | 104-4100-006 | 2000 series hyd motor 2 bolt | 23 | 2 | HN 1 116 - 12 | Hex Jam Nut 1-1/16 - 12 UN |
| 7 | 4 | 5315*10 | Fitting | | | UN JAM | |
| 8 | 2 | 5726*12 | JIC Bulkhead Run Tee | 24 | 2 | HRG04 | Rotor Drive Adaptor Weldment |
| 9 | 8 | 12134 | Hex Bolt | 25 | 8 | MF1-1620-24 | Ingus bushing |
| 10 | 4 | 12134CSH | Socket Head | 26 | 1 | RD115 | Made In Canada Decal |
| 11 | 2 | 12412 | Hex Bolt | 27 | 1 | RD132 | Roto-Rake Decal |
| 12 | 15 | 38212 | Hex Bolt | 28 | 1 | RD135 | RR72 Decal |
| 13 | 1 | 100174 | Rotor Weldment 72 | 29 | 2 | RVA-030 | Oil Seal |
| 14 | 2 | 100175 | Hyd Motor Mount | 30 | 2 | RVA-045 | Oil Seal |
| 15 | 1 | 110707-AB | Roto Rake Frame Weldment 72 | 31 | 1 | Serial | Serial # Plate |
| 16 | 2 | 110715 | Hose Shield 72 | 32 | 2 | WD111 | Danger to Feet - Stay Clear of Frontl Decal |
| 17 | 5 | 113079 | Plate | 33 | 1 | WD112 | WARNING - Read Manual Decal |
| 18 | 2 | 114621 | Hydraulic Hose | 34 | 2 | WD115 | WARNING Pinch Point Decal |
| | | | H24508-08U610-08U612-54 | 35 | 2 | WD116 | WARNING Flying Object Decal |

RR72 WHEEL ASSEMBLY

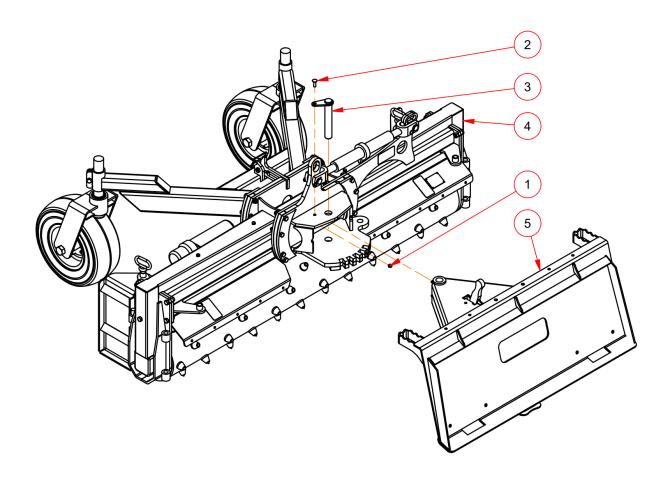


| | Parts List | | | Parts List | | | |
|------|------------|-----------------------|------------------------|------------|-----|----------------|-------------------------------|
| ITEM | QTY | PART NUMBER | DESCRIPTION | ITEM | QTY | PART NUMBER | DESCRIPTION |
| 1 | 2 | 1.5 x 2.5625 x 0.71 - | Tapered Roller Bearing | 12 | 1 | 107235 | Wheel Attachment Frame |
| | | LM29749 LM29710X | | 13 | 2 | 108110 | Wheel 16.5x8 5 on 4.5 |
| 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 | 387113 | 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

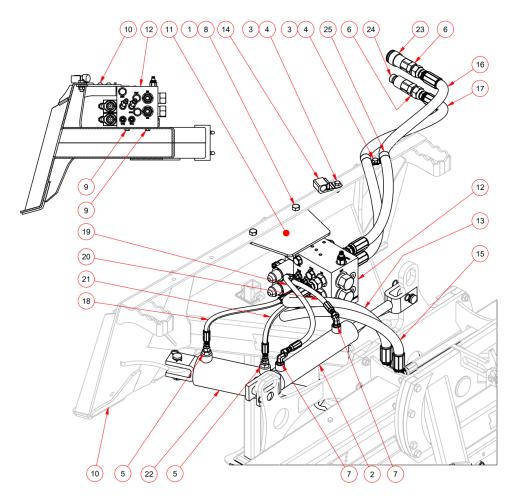


RR72 - 15 DEGREE BASE SWIVEL FRAME ASSEMBLY



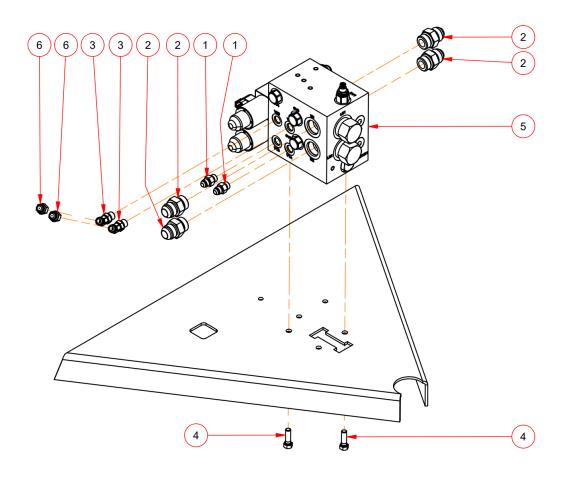
| | Parts List | | | | | |
|------|------------|-------------|-----------------------------------|--|--|--|
| ITEM | QTY | PART NUMBER | DESCRIPTION | | | |
| 1 | 1 | 38CLN | NC Lock Nut | | | |
| 2 | 1 | 38114C | Carriage Bolt | | | |
| 3 | 1 | 103944 | Pin | | | |
| 4 | 1 | 110705-AB | Roto Rake 72 | | | |
| 5 | 1 | 122783 | 15 Deg Base Swivel Frame Assembly | | | |

OPTIONAL ON THE FLY HYDRAULIC VALVE BLOCK



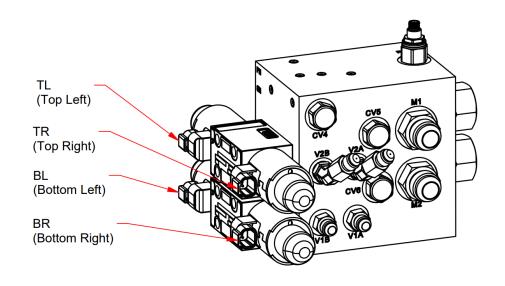
| | Parts List | | | Parts List | | | |
|------|------------|-------------|----------------------------------|------------|-----|-------------|--------------------------|
| ITEM | QTY | PART NUMBER | DESCRIPTION | ITEM | QTY | PART NUMBER | DESCRIPTION |
| 1 | 2 | 12FSLN | Flange Nut | 16 | 1 | 123598 | 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

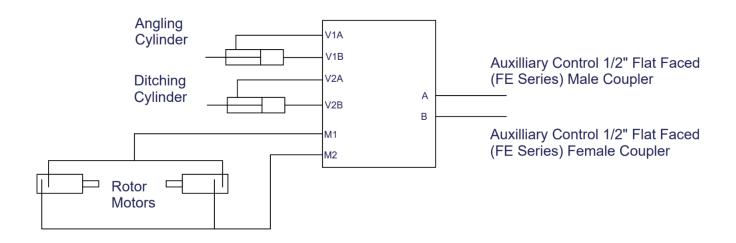


| | Parts List | | | | | |
|------|------------|-------------|-----------------------------|--|--|--|
| ITEM | QTY | PART NUMBER | DESCRIPTION | | | |
| 1 | 2 | 5315*6 | Fitting | | | |
| 2 | 4 | 5315*12 | Fitting | | | |
| 3 | 2 | 5365*6 | 45 Elbow JIC/Straight | | | |
| 4 | 2 | 38114 | Hex Bolt | |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

OPTIONAL HYDRAULIC VALVE BLOCK DETAILS

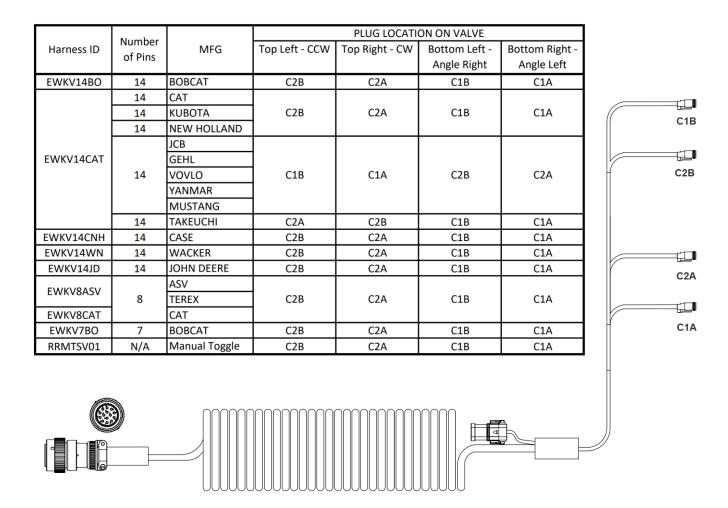


| Solenoid operates Port | | RotoRake Reaction |
|------------------------|-----|-------------------------|
| Top Right | V2A | Tilt Clock Wise |
| Top Left | V2B | Tilt Counter Clock Wise |
| Bottom Left | V1B | Angle Right |
| Bottom Right | V1A | Angle Left |



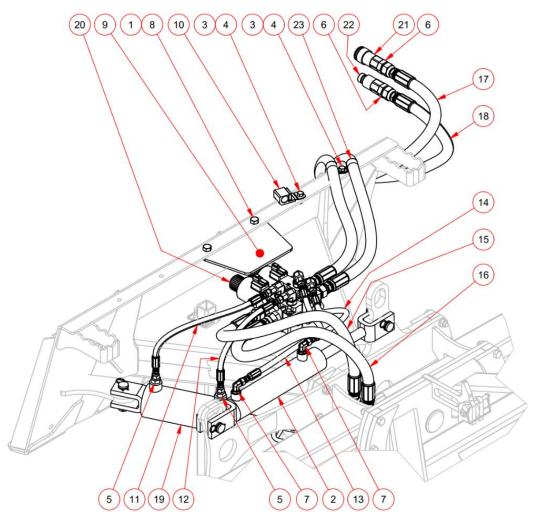
OPTIONAL VALVE BLOCK WIRING HARNESSES

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



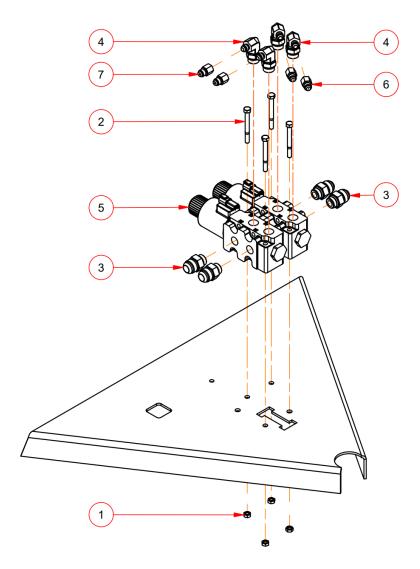
Showing 14 Pin Plug

OPTIONAL DIVERTOR VALVE



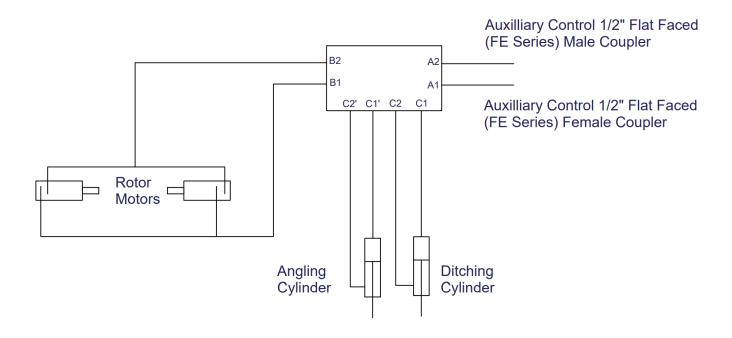
| Parts List | | | Parts List | | | | |
|------------|------|-------------|-------------------------|------|------|-------------|--------------------------------|
| ITEM | QTY | PART NUMBER | DESCRIPTION | ITEM | QTY | PART NUMBER | DESCRIPTION |
| 1 | 2 | 12FSLN | Flange Nut | 14 | 1 | 124671 | Hydraulic 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

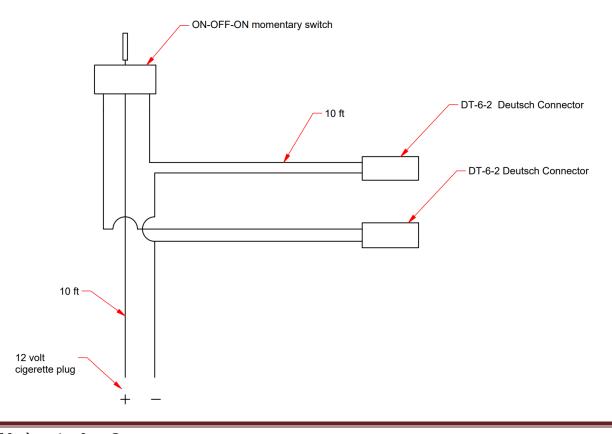


CURRENT WIRING HARNESSES

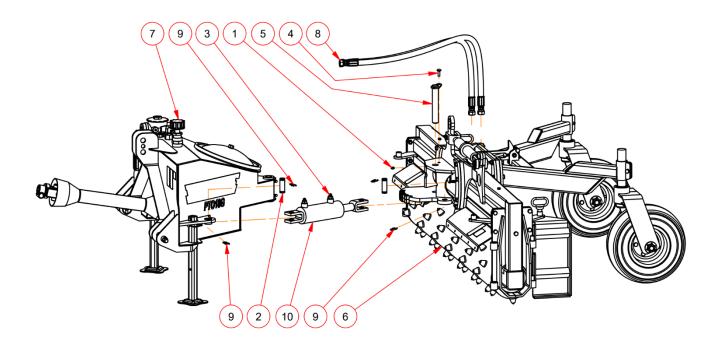
Use wiring harnesses starting with part number EWKD#### to connect the Walvoil 6 Way Solenoid Control Sectional Divertor Valve to the prime mover.

| 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.

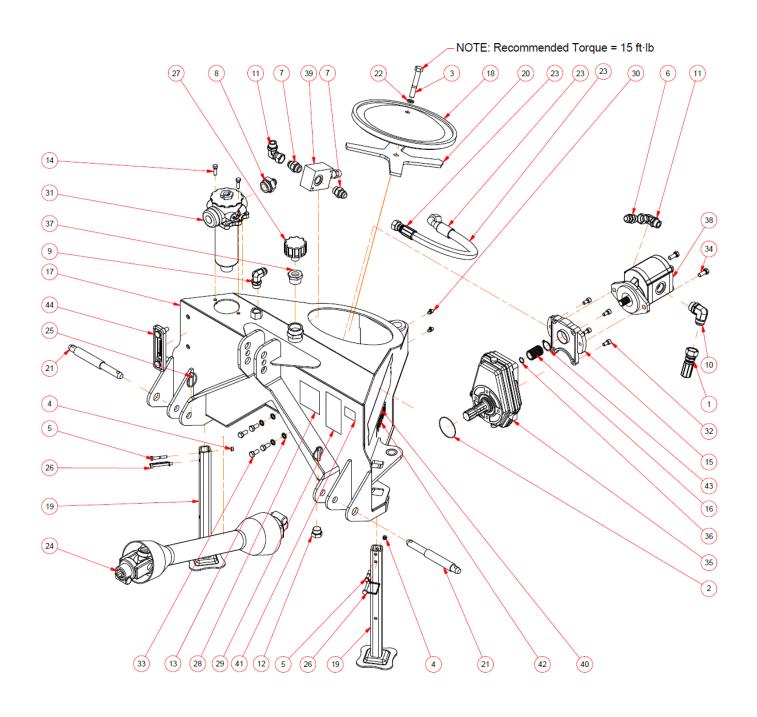


RR72PTO18G - ASSEMBLY



| 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 | 110705-AB | Roto Rake 72 |
| 7 | 1 | 111649 | Base Swivel Frame Oil Tank |
| 8 | 2 | 114958 | Hydraulic Hose-H14512-12U612-12U612-48 |
| 9 | 4 | 637856 | Hair Pin |
| 10 | 1 | CL3006-S | 3x6 Clevis Cylinder |

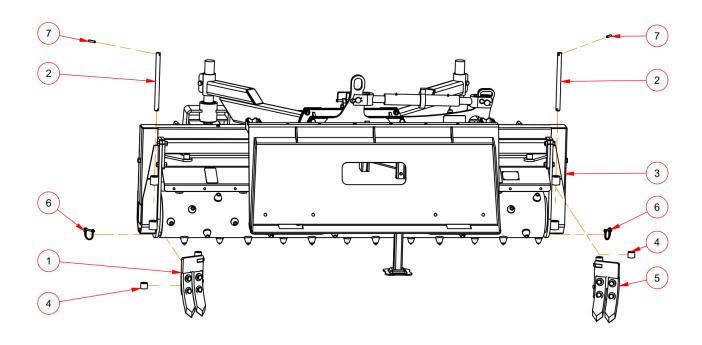
PTO18G - EXPLODED VIEW



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 | | |
| 7 | 2 | | JIC Nipple | |
| - | | 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 | | |
| 39 | 1 | RCL12-3000 | Pump Right Hand Rotation 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

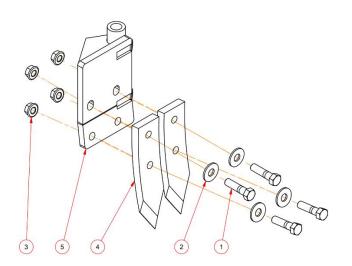


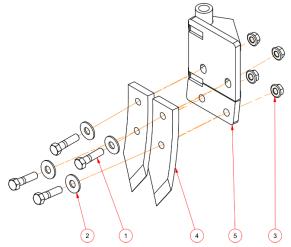
| Parts List | | | | |
|------------|-----|-------------|-------------------------|--|
| ITEM | QTY | PART NUMBER | DESCRIPTION | |
| 1 | 1 | 100192 | Plow Attachment | |
| 2 | 2 | 100193 | Pin | |
| 3 | 1 | 110705-AB | Roto Rake 72 | |
| 4 | 2 | 120359 | Spacer Bushing | |
| 5 | 1 | 123311 | Plow Attachment 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

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