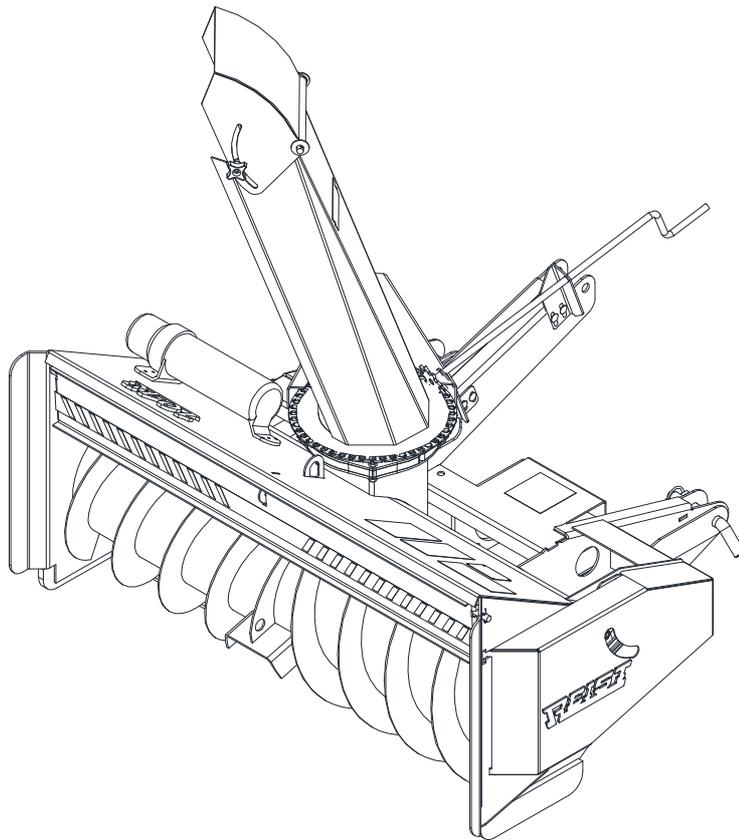




**INNOVATION WORKING FOR YOU**



**1000 Series  
Snow Thrower  
Operator's and Parts Manual**

REIST Industries Inc.  
100 Union Street  
Elmira, Ontario, Canada  
N3B 2Z2

Phone: 519-669-1501  
Fax: 519-669-3021  
Toll Free: 1-877-467-3478  
[www.reistindustries.com](http://www.reistindustries.com)

Effective Serial Number D10136 and up  
Revised: May 2012



## Contents

INTRODUCTION.....	4
PRODUCT CONFIGURATION .....	5
GENERAL SAFETY PRECAUTIONS .....	6
OPERATION AND TRANSPORTATION ON PUBLIC ROADS AND AREAS .....	7
SAFETY SIGN LOCATION .....	8
SETUP INSTRUCTIONS .....	9
HYDRAULIC DRIVE .....	10
Positioning .....	10
MAINTENANCE .....	10
USE OF SNOW THROWER .....	11
OPERATION.....	11
OPERATIONAL HINTS.....	11
PARTS .....	13
Main Throwing Assembly.....	13
PARTS .....	14
Main Throwing Assembly.....	14
PTO Drive Option.....	15
Hydraulic Motor Drive Option (6000 Series motor).....	16
Manual Hood Turner .....	17
Hydraulic Hood Turner .....	18

Record your product information for future reference:

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

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

In Service Date: \_\_\_\_\_

Sold By: \_\_\_\_\_

## INTRODUCTION

Thank you for choosing a REIST 1000 Series Snow Thrower.

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 1000 Series Snow Throwers. 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](http://www.reistindustries.com)

## Innovation Working For You

**REIST Industries Inc.**  
100 Union Street  
Elmira, Ontario, Canada  
N3B 2Z2

Phone: 519-669-1501  
Fax: 519-669-3021  
Toll Free: 1-877-467-3478

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 right size of Snow Thrower is matched to the prime mover, REIST Industries Snow Throwers are sized as follows:

### 1000 Series Snow Thrower

- Model 1048 - 48" wide, 540 PTO or Hydraulic Drive, 440 lb ( 200 kg) weight, 15 - 30 input hp, using a CAT I Hitch mount



### **WARNING!**

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

Each model is either hydraulic or PTO driven and comes standard with a manual hood turner and manual deflector and can be equipped with several options, such as:

- Hydraulic hood turner
- Hydraulic diverter valve

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

Front or Rear Mounted	Orientation that is determined in relation to the operator of the equipment when seated in the normal operating position of the prime mover
Right, Left, Front, Rear	Orientation that is determined in relation to the operator of the equipment when seated in the normal operating position of the prime mover.
Attachment, Implement	Refers to the Snow Thrower 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, DANGER, IMPORTANT	A notice that relates to the safe and efficient operation of the Snow Thrower or prime mover. Read and understand the reference before attaching or operating the Snow Thrower 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 Snow Thrower was designed for use in snow clearing / removal applications only. Do not use with any other materials.

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 SNOW BLOWER OR PRIME MOVER**

Modifications may weaken the integrity of the Snow Blower 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**

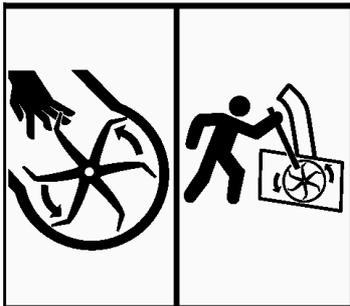
- Do not wear loose clothing, or any accessories that can catch in moving parts
- If you have long hair, cover or secure it so that it does not become entangled in the equipment
- Work on a level surface in a well-lit area.
- Always lower raised equipment to the ground or securely support it to prevent 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



## **WARNING!**

### **STAY CLEAR OF ROTATING OBJECTS**

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



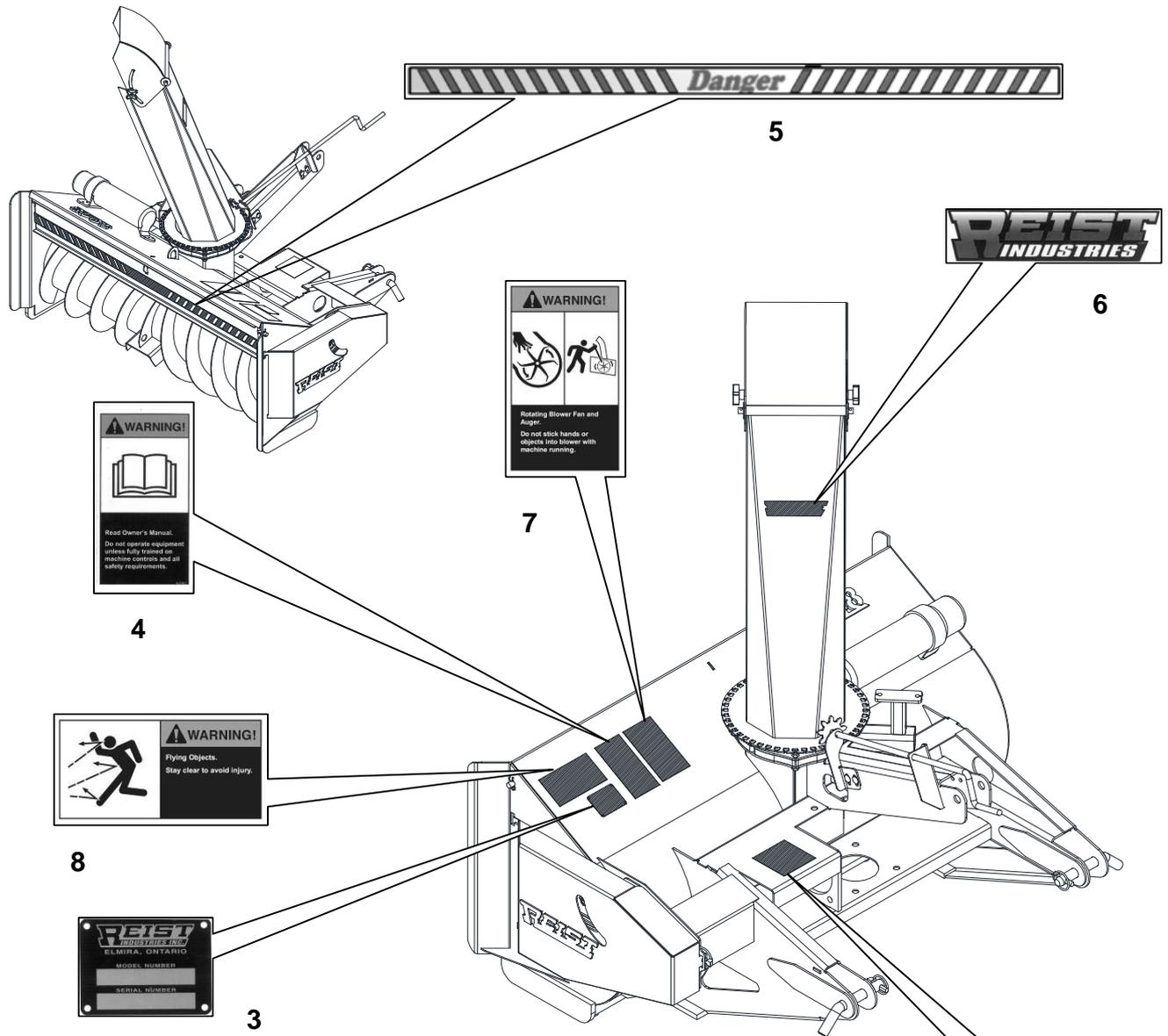
Never use your hands to clear a clogged auger. Never allow anyone to reach into the chute, force objects (i.e. bars, poles, etc.) down the chute, or otherwise come in contact with a rotating fan or with a non-rotating clogged fan or auger. Never allow anyone to reach into the chain drive housing. The auger can crush and/or dismember. Keep everyone clear of the auger until the prime mover engine is off and the hydraulic pressure has been relieved.

## **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 that the discharged snow is to be placed is free from hazards and that the discharged snow will not create a hazard, i.e. reduce visibility for vehicular traffic or pedestrians. Use caution when directing the discharge as hazardous objects (stones, ice, etc.) may inadvertently be discharged along with the snow. 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 SIGN LOCATION

Contact REIST Industries if replacement safety signs are required.



## DECAL LOCATION PARTS LIST

Item	Qty	Part Number	Description
1	1	67.222.000	Manual Holder
2	1	DD100	Drive Line Decal
3	1	Serial	Serial Number Plate
4	1	WD103	Read Manual Decal
5	1	DD108	Danger Strip Decal
6	2	RD107	REIST Decal
7	2	WD101	Rotating Fan Decal
8	2	WD105	Flying Object Decal

## 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.

Once attached, and it is safe to do so, carefully raise the Snow Thrower and cycle the lift cylinders to check clearances and to verify that all mounting procedures have been successfully completed.

Know the output speed of the Power Take Off (PTO).

Note a 540 rpm PTO drive has 6 splines or teeth and is 1  $\frac{3}{8}$  inch in diameter.



### **WARNING!**

**STAY CLEAR OF ROTATING OBJECTS**

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

### PTO DRIVE

The Snow Thrower hitch is a category I. Use the proper pin sizes when attaching the Snow Thrower 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 Snow Thrower 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 Snow Thrower
- 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 Snow Thrower 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 Snow Thrower 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

## ***HYDRAULIC DRIVE***

The Snow Thrower hitch is a category I. And usually has a quick hitch adaptor for either skid steer or front end loader.

- a. Connect the Snow Thrower to prime mover. Be sure the quick attach plate is locked (See prime mover manual for details)
- b. Connect the hydraulic lines
- c. When it is safe to do so, slowly lift the Snow Thrower. Make sure hydraulic hoses have clearance and will not get caught or pinched when lifting.

## ***Positioning***

Following attachment to the prime mover, ensure that the Snow Thrower's cutting edge is parallel to the ground. If not, adjust the lift arms on the prime mover accordingly.

The working clearance to the ground is determined by surface beneath the snow where your Snow Thrower is being operated.

- If the surface is soft / uneven or contains gravel, stone or other material that might be easily picked up and thrown by the Snow Thrower, then tilt the Snow Thrower so that there is more pressure on the skid shoes thereby increasing the working clearance between the surface and the Snow Thrower
- If the surface is hard and smooth, like concrete or asphalt, the Snow Thrower can be positioned so that there is less pressure on the skid shoes and more pressure on the cutting edge to minimize residual snow following each pass

## **MAINTENANCE**

Refer to the General Safety Precautions, page 6 of this manual before performing any maintenance.

1. Always ensure the Snow Thrower is properly installed, the prime mover is positioned on a level surface with the park brake set and the Snow Thrower 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
- Grease bearings every 100 hrs with EP2. **Do Not Over Grease**
  - Check the chain tension adjustment and ensure that the chain does not have any slack. If the tensioner needs to be adjusted, slightly loosen bolt on outside of frame and with a pipe wrench, turn the casting until the arm has 10 to 15 degrees of total travel between being fully engaged with the chain and its clear position
  - Grease PTO crosses daily (or 8 hours of operation) with EP2 (PTO drive only)
  - Check oil in gearbox at the level check plug every 500 hrs. Use 80W90 gear oil (PTO drive only)

- 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
- At the end of season, perform all maintenance activities greasing shafts and replacing gear box oil, cap and protect exposed hose ends (if so equipped) and the PTO drive splines. Always check for missing or damaged parts and repair as required

## **USE OF SNOW THROWER**

### ***OPERATION***

Starting the Snow Thrower:

- Be sure the area is clear of all bystanders
- Refer to the prime mover starting instructions
- Run the engine at low idle and slowly engage the PTO/hydraulic control
- Slowly increase the prime mover engine RPM to achieve the rated PTO speed. Never exceed rated speed

Stopping Machine:

- Slowly decrease engine speed to low idle
- Wait until the Snow Thrower has slowed to low engine idle speed before disengaging PTO/hydraulic drive
- Shut down the prime mover in accordance to instructions and wait for moving parts to stop and relieve residual hydraulic pressure before approaching the Snow Thrower

Ground Speed:

Travel speed is governed by the operating conditions including the depth of snow, the density (wetness) and the area being cleared including the surface and slopes. It is the responsibility of the operator to note the condition of the job being done and set the speed to obtain the proper clearing rate to prevent plugging and maintain safe control of machine.

The PTO driveline is equipped with a shear bolt that protects the drive system components from shock loads if the machine strikes an obstruction

### ***OPERATIONAL HINTS***

- Always ease the prime mover slowly into the snow. Do not allow the engine of the prime mover to lug or stall
- In deep or heavy snow, you may have to remove the snow in more than one pass
- Allow the snow to be cleared from the Snow Thrower by momentarily stopping the prime mover or slowing the speed of travel

- Remember to disengage the PTO when raising or lowering the Snow Thrower
- **DO NOT USE THE SNOW THROWER TO PUSH SNOW – always engage snow with the Snow Thrower operating**

The most effective method of discharging snow is to blow the snow as high as possible downwind, to minimize drifting in the cleared area. The hood deflector will allow you to adjust the height and distance that the snow is thrown. You can reduce the distance and force that the snow is thrown by reducing the tractor's rpm. When operating at low engine rpm's, allow time for the snow to clear from the thrower by also reducing the travel speed. Your Snow Thrower is equipped with hood rotation which allows the operator to change the direction of the snow being thrown. Always be aware of where you are throwing the snow.



## **WARNING!**

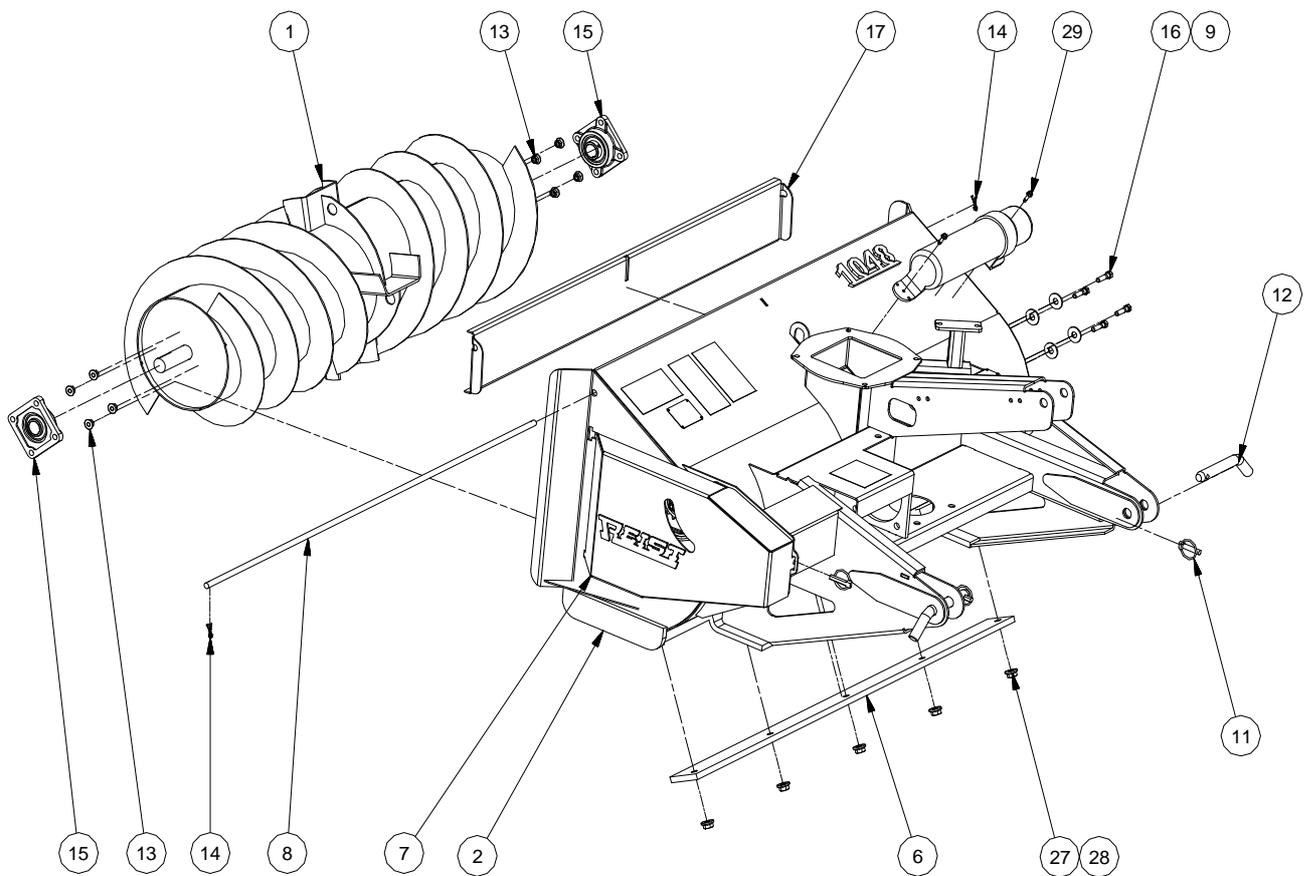
### **READ OPERATOR'S MANUAL BEFORE OPERATING**

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
- Know the area that the discharged snow is to be placed is free from hazards and that the discharged snow will not create a hazard
- Use caution when directing the discharge as hazardous objects (stones, ice, etc.) may inadvertently be discharged along with snow
- 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

# PARTS

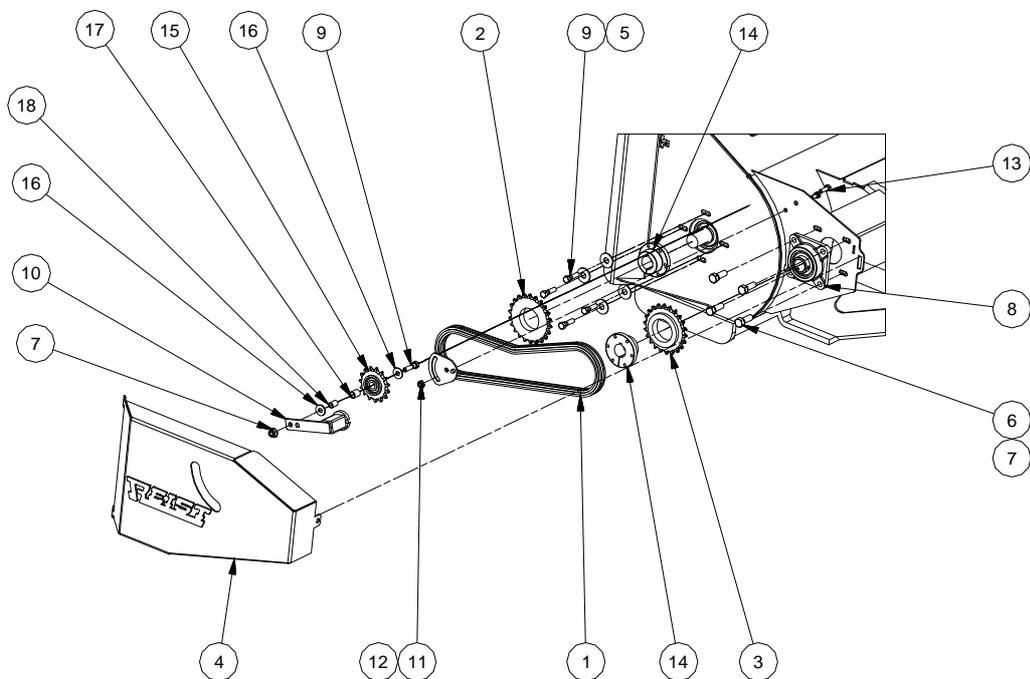
## Main Thrower Assembly



Parts List				Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION	ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	1006__	Single Stage Auger	13	13	38FSLN	Flange Nut
2	1	1005__	Blower Frame Weldment	14	2	316112CP	Cotter Pin
6	1	1002__	Cutting Edge	15	3	UCF206-104	Bearing
7	1	1015	Chain Shield	16	9	38112	Hex Bolt
8	1	1003__	Slinger Shield Shaft	17	1	1121	Deflector
9	8	12FW	Plain Washer	27	5	12FSLN	Flange Nut
11	3	385507	Lynch Pin	28	5	12112CB	Carriage Bolt
12	2	CAT1-784	Cat 1 Arm Pin	29	2	2167121	Self Drilling 14x1 Metal Screw

# PARTS

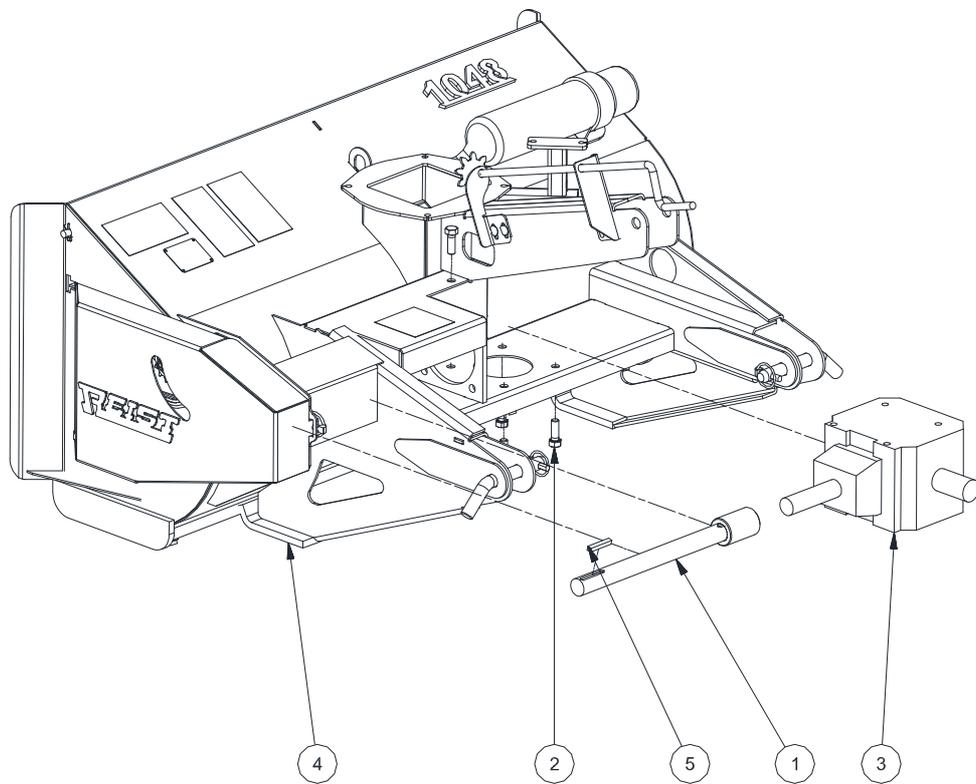
## Main Throwing Assembly



Parts List				Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION	ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	50RC (66 links)	Roller Chain	10	1	SE15	Tensioner
2	1	50SDS22	Sprocket	11	1	516FSLN	Hex Flange Nut
3	1	50SDS21	Sprocket	12	1	51634	Hex Bolt
4	1	1015	Chain Shield	13	1	825	Metric Hex Bolt
5	8	12FW	Plain Washer	14	2	SDS1-1/4	SDS Type QD Bushing, 1.25" Bore
6	4	12112	Hex Bolt	15	1	20501510	50 Idler Sprocket
7	13	38FSLN	Flange Nut	16	2	38F	Plain Washer
8	3	UCF206-104	Bearing	17	1	RSI-0810-12	Ingus bushing
9	9	38112	Hex Bolt	18	1	RSI-0608-12	Ingus bushing

# PARTS

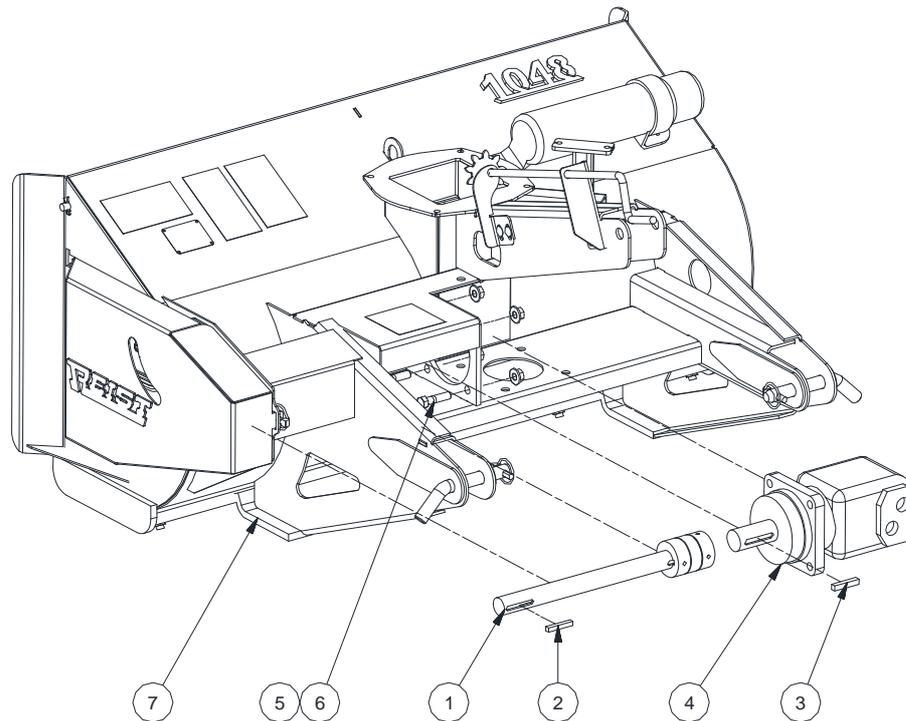
## PTO Drive Option



Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	100448	Auger Drive Shaft
2	6	12112	Hex Bolt
3	1	T-27D40	Gearbox
4	1	1048	Single Stage Blower
5	1	516KS2	Key

# PARTS

## Hydraulic Motor Drive Option (6000 Series motor)

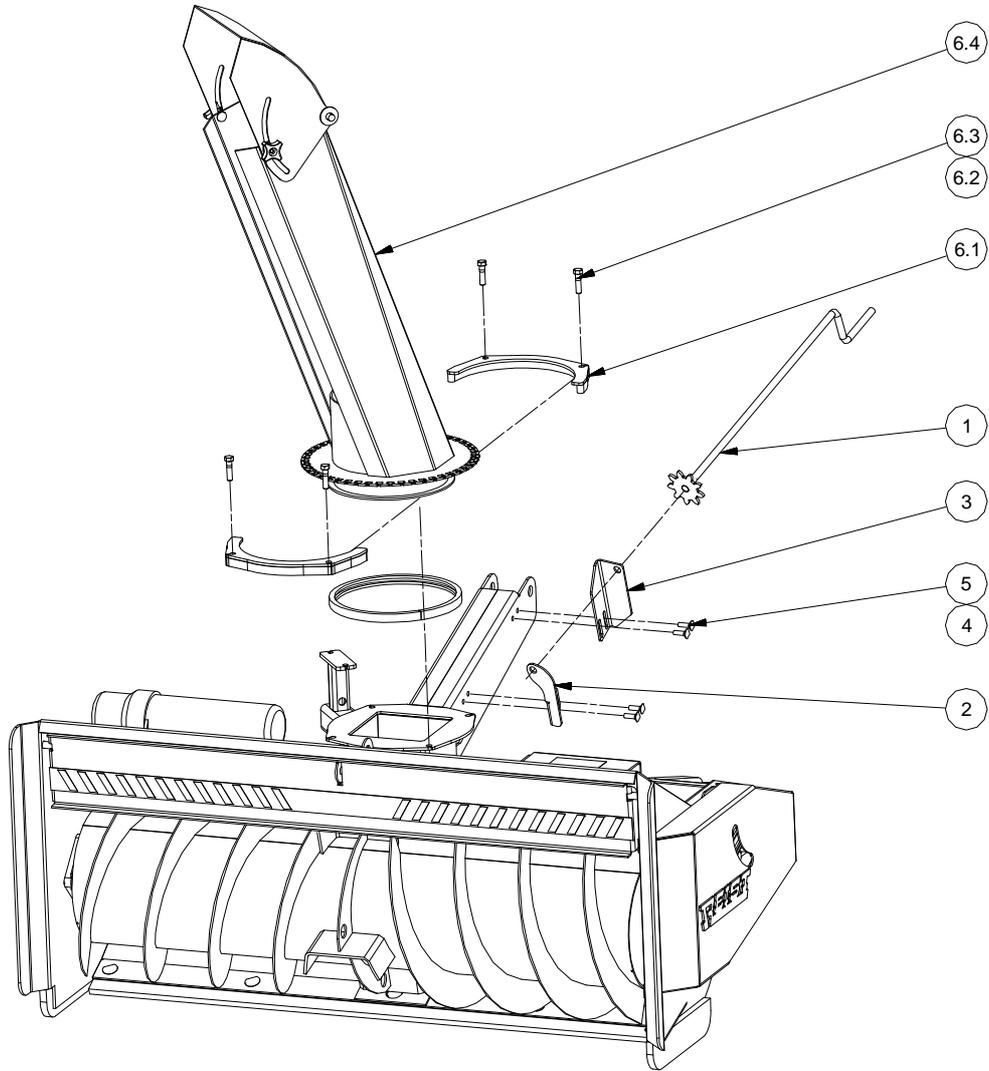


Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	100148	Auger Drive Shaft Hydraulic
2	1	516KS2	Key
3	1	38KS2	38KS2
4	1	6000 series	Oil Motor
5	4	12FSLN	Flange Nut
6	4	12*2	Hex Bolt
7	1	1048	Single Stage Blower

Note: For items 1, and 3, replace XX with '48,60, or 72' when ordering parts for a 48",60" or 72" Snow Thrower

# PARTS

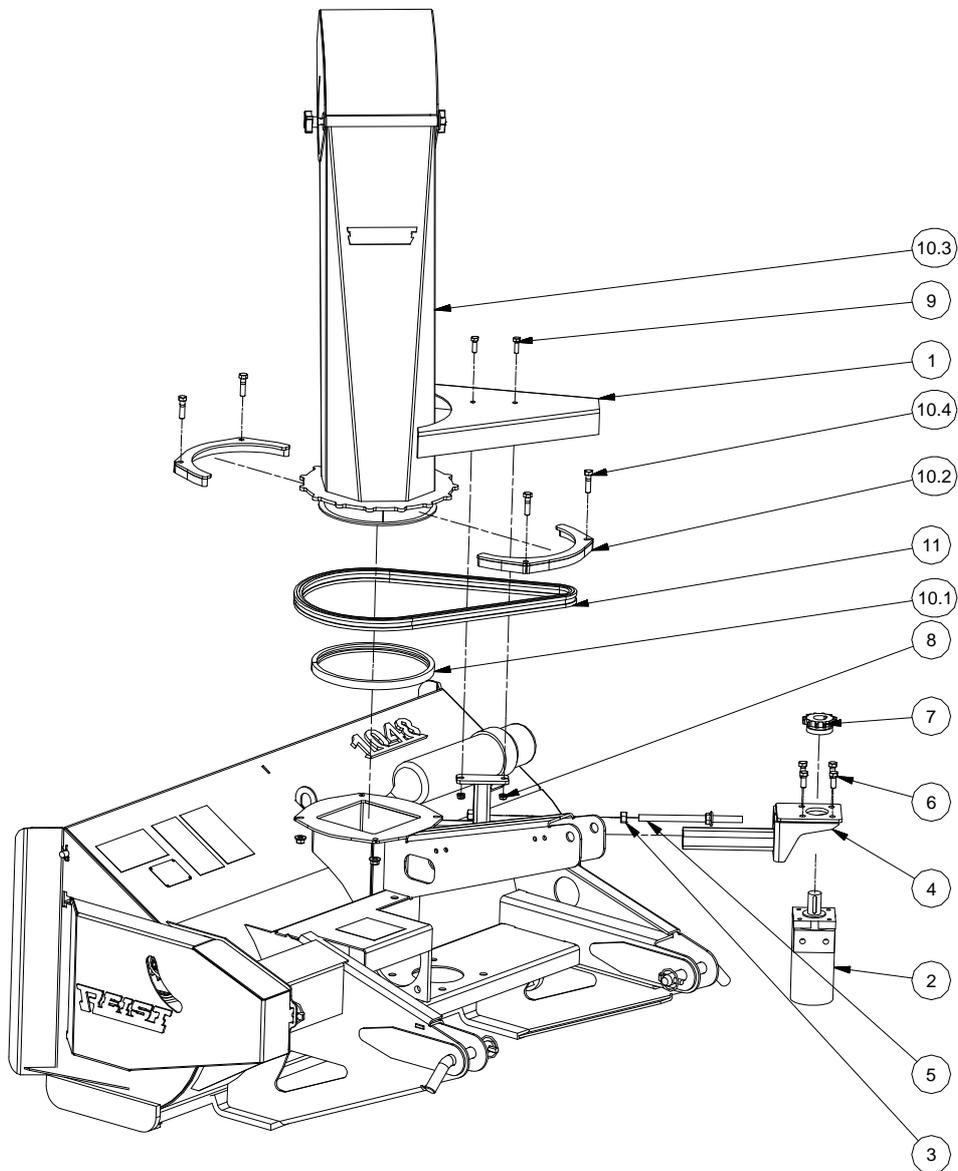
## Manual Hood Turner



Parts List		
ITEM	QTY	PART NUMBER
1	1	1118
2	1	1119
3	1	1120
4	6	516FSLN
5	4	5161CB
6.1	2	100531
6.2	4	38FSLN
6.3	4	38112
6.4	1	100534

# PARTS

## Hydraulic Hood Turner



Parts List				Parts List			
ITEM	QTY	PART NUMBER	DESCRIPTION	ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	100543	Hyd Hood Chain Shield	8	6	516FSLN	Hex Flange Nut
2	1	101-1016MTR	101-1016MTR	9	2	516_1	Hex Bolt
3	2	12N	Hex Nut	10.1	1	100530	UHMW ring
4	1	2019	Hyd Motor Mount	10.2	2	100531	Clamping Ring
5	1	2117	Chain Tightener	10.3	1	100533	Hydraulic Hood Base
6	4	38*1	Hex Bolt	10.4	4	38112	Hex Bolt
7	1	50B12x1	sprocket	11	1	2050RC	Roller Chain

## 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

### ***Proof of Purchase – Retain for your records***

Date of Purchase (yyyy/mm/dd)		Model	Serial #	
Dealer Purchased From		City	State or Province	Country
First Name		Last Name	Phone Number (include area code)	
Address			State or Province	Country
City	Postal Code	<b>Return to: REIST Industries Inc. 100 Union St., Elmira, Ontario, Canada N3B 2Z2 (519) 669-1501</b>		

Remove bottom section and return to REIST Industries within 30 days of purchase



### ***Proof of Purchase***

Date of Purchase (yyyy/mm/dd)		Model	Serial #	
Dealer Purchased From		City	State or Province	Country
First Name		Last Name	Phone Number (include area code)	
Address			State or Province	Country
City	Postal Code	<b>Return to: REIST Industries Inc. 100 Union St., Elmira, Ontario, Canada N3B 2Z2 (519) 669-1501</b>		

REIST Industries Inc.  
100 Union Street  
Elmira, Ontario, Canada  
N3B 2Z2

