



BRUTUS[®] **SNOW BLOWER**

Owner's Manual
for Maintenance and Safety

WELCOME

Thank you for purchasing a POLARIS vehicle, and welcome to our world-wide family of POLARIS owners. We proudly produce an exciting line of utility and recreational products.

- Snowmobiles
- All-terrain vehicles (ATVs)
- BRUTUS® utility vehicles and attachments
- RANGER® utility vehicles
- Victory® motorcycles
- Low Emission Vehicles (LEVs)

We believe POLARIS sets a standard of excellence for all utility and recreational vehicles manufactured in the world today. Many years of experience have gone into the engineering, design, and development of your POLARIS vehicle, making it the finest machine we've ever produced.

For safe and enjoyable operation of your vehicle, be sure to follow the instructions and recommendations in this owner's manual. Your manual contains instructions for minor maintenance, but information about major repairs is outlined in the POLARIS Service Manual and should be performed only by a Factory Certified Master Service Dealer® (MSD) Technician.

Your POLARIS dealer knows your vehicle best and is interested in your total satisfaction. Be sure to return to your dealership for all of your service needs during, and after, the warranty period.



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Copyright 2013 POLARIS Industries Inc. All information contained within this publication is based on the latest product information at the time of publication. Due to constant improvements in the design and quality of production components, some minor discrepancies may result between the actual vehicle and the information presented in this publication. Depictions and/or procedures in this publication are intended for reference use only. No liability can be accepted for omissions or inaccuracies. Any reprinting or reuse of the depictions and/or procedures contained within, whether whole or in part, is expressly prohibited.

The original instructions for this vehicle are in English. Other languages are provided as translations of the original instructions.

Printed in U.S.A.

BRUTUS Snow Blower Owner's Manual

P/N 9924393

TABLE OF CONTENTS

Introduction	4
Safety	6
Features And Controls	11
Daily Inspection	12
Operation	15
Lifting The Attachment	30
Transporting The Attachment On A Trailer	30
Maintenance Safety	32
Troubleshooting	33
Maintenance	34
POLARIS Products	42
Specifications	43
Warranty	45
Maintenance Log	46
Index	47

INTRODUCTION

⚠ WARNING

Failure to follow the warnings contained in this manual can result in severe injury or death.

A POLARIS BRUTUS and attachments are not toys and can be hazardous to operate. This vehicle handles differently than other vehicles, such as motorcycles and cars. A collision or rollover can occur quickly, even during routine maneuvers like turning, or driving on hills or over obstacles, if you fail to take proper precautions.

- Read this owner's manual. Understand all safety warnings, precautions and operating procedures before operating the vehicle. Keep this manual with the vehicle.
- Never permit a guest to operate this vehicle unless the guest has read this manual and all product labels.
- Always keep hands and feet inside the vehicle at all times.
- The Polaris BRUTUS is not intended for on-highway use. Driver must be at least 16 years old with a valid driver's license to operate. Passengers must be at least 12 years old and tall enough to sit with feet firmly on the floor. All SxS drivers should take a safety training course. Polaris recommends that drivers and passengers wear helmets, eye protection, and protective clothing, especially for trail riding and other recreational use. Always wear seat belts. Be particularly careful on difficult terrain. Never engage in stunt driving, and avoid excessive speeds and sharp turns. Riding and alcohol/drugs don't mix. Check local laws before riding trails.

The BRUTUS is an off-road vehicle. Familiarize yourself with all laws and regulations concerning the operation of this vehicle in your area.

The following signal words and symbols appear throughout this manual and on your vehicle. Your safety is involved when these words and symbols are used. Become familiar with their meanings before reading the manual.

Safety Symbols and Signal Words

The following signal words and symbols appear throughout this manual. Your safety and the safety of others is involved when these words and symbols are used. Become familiar with their meanings before reading the manual.



The safety alert symbol indicates a potential personal injury hazard.

DANGER

A DANGER indicates a hazardous situation that, if not avoided, will result in death or serious injury.

WARNING

A WARNING indicates a hazardous situation that, if not avoided, could result in death or serious injury.

CAUTION

A CAUTION indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.

NOTICE

A NOTICE indicates a situation that could result in property damage.



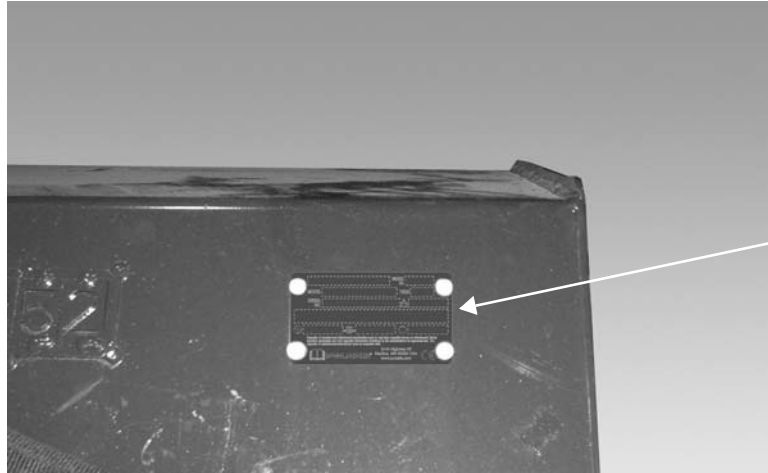
The Prohibition Safety Sign indicates an action NOT to take in order to avoid a hazard.



The Mandatory Action Sign indicates an action that NEEDS to be taken to avoid a hazard.

Vehicle Identification Numbers

Record your snow blower identification number in the spaces provided.



VIN

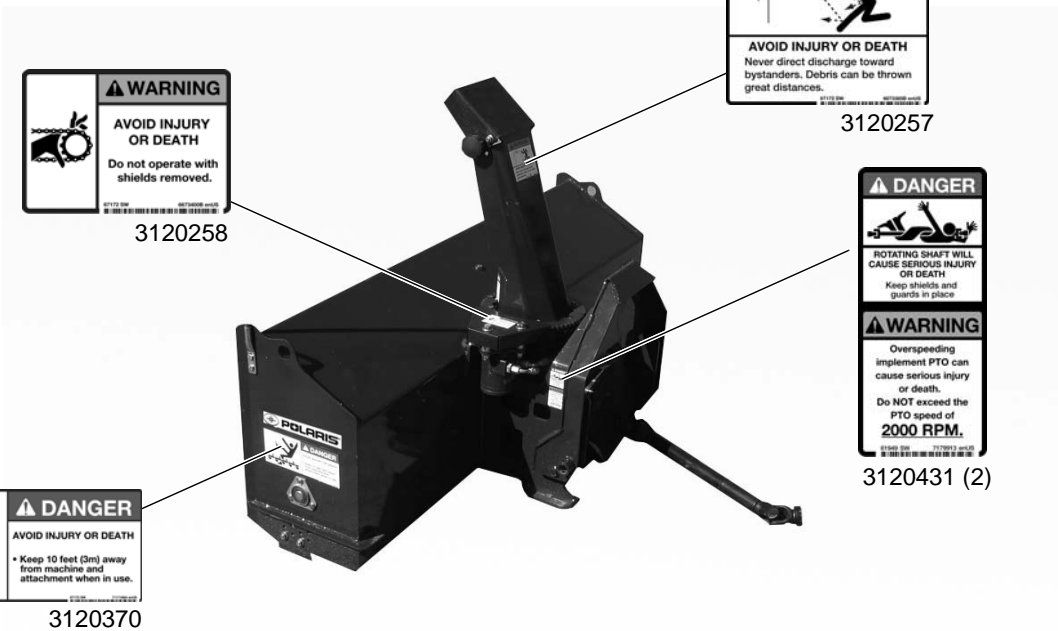
Vehicle Model Number: _____

SAFETY

Safety Labels and Locations

Warning labels have been placed on the vehicle for your protection. Read and follow the instructions of the labels on the vehicle carefully. If any of the labels depicted in this manual differ from the labels on your vehicle, always read and follow the instructions of the labels *on the vehicle*.

If any label becomes illegible or comes off, contact your POLARIS dealer to purchase a replacement. Replacement *safety* labels are provided by POLARIS at no charge. The part number is printed on the label.



Safety Labels and Locations

Fan Danger

DANGER

AVOID INJURY OR DEATH

- Stop engine before placing hand in discharge chute.
- Rotating fan blades can crush and dismember.

3120428

Keep Away Danger

DANGER

AVOID INJURY OR DEATH

- Keep 10 feet (3 m) away from machine and attachment when in use.

3120370

Debris Warning

WARNING

AVOID INJURY OR DEATH

Never direct discharge chute towards bystanders. Debris can be thrown great distances.

3120257

Shields Warning

WARNING

AVOID INJURY OR DEATH

Do not operate with shields removed.

3120258

Rotating Shaft Danger / Overspeed Warning

WARNING

ROTATING SHAFT WILL CAUSE SERIOUS INJURY OR DEATH

Keep shields and guards in place.

Overspeeding implement PTO can cause serious injury or death. Do Not exceed the PTO speed of 2000 RPM.

3120431

SAFETY

Operator Safety

WARNING!

Serious injury or death can result if you do not follow these instructions and procedures, which are outlined in further detail within your owner's manual.

- Read this manual and all labels carefully. Follow the operating procedures described.
- Never allow anyone under age 16 to operate this vehicle and never allow anyone without a valid driver's license to operate this vehicle.
- Do not carry passengers until you have at least two hours of driving experience with this vehicle.
- No person under the age of 12 may ride as a passenger in this vehicle. Any passenger must be able to comfortably reach the floor and hand holds.
- The driver and all passengers must wear eye protection and seat belt at all times. All riders should also wear long sleeves, long pants and sturdy over-the-ankle boots.
- Always keep hands and feet inside the vehicle at all times.
- Always keep both hands on the steering wheel and both feet on the floorboards of the vehicle during operation.
- Never permit a guest to operate this vehicle unless the guest has read this manual and all product labels.
- To reduce tipover risk, be especially careful when encountering obstacles and slopes and when braking on hills or during turns.
- This vehicle is for off road use only. Never operate on public roads. Always avoid paved surfaces.
- Never consume alcohol or drugs before or while operating this vehicle.
- Never operate at excessive speeds. Always travel at a speed proper for the terrain, visibility and operating conditions, and your experience.
- Never attempt jumps or other stunts.
- Always inspect the vehicle before each use to make sure it's in safe operating condition. Always follow the inspection procedures described in this manual.
- Always travel slowly and use extra caution when operating on unfamiliar terrain. Be alert to changing terrain.
- Never operate on excessively rough, slippery or loose terrain.
- Always follow proper procedures for turning. Practice turning at slow speeds before attempting to turn at faster speeds. Never turn at excessive speeds.
- Always have this vehicle checked by an authorized POLARIS dealer if it has been involved in an accident.
- Never operate this vehicle on hills too steep for the vehicle or for your abilities. Practice on smaller hills before attempting larger hills.
- Always follow proper procedures for climbing hills as described in the BRUTUS owner's manual. Check the terrain carefully before attempting to climb a hill. Never climb hills with excessively slippery or loose surfaces. Never move the travel control pedal suddenly, make sudden changes of direction or make sudden gear changes. Never go over the top of a hill at high speed.
- Always follow the proper procedures outlined in this manual for traveling downhill and for braking on hills. Check the terrain carefully before descending a hill. Never travel downhill at high speed. Avoid going downhill at an angle, which would cause the vehicle to lean sharply to one side. Travel straight down the hill where possible.
- Always check for obstacles before operating in a new area. Never attempt to operate over large obstacles such as rocks or fallen trees. Always follow the proper procedures outlined in the BRUTUS owner's manual when operating over obstacles.
- Always be careful of skidding or sliding. On slippery surfaces such as ice, travel slowly and exercise caution to reduce the chance of skidding or sliding out of control.
- Never operate your vehicle in fast-flowing water or in water deeper than that specified in the BRUTUS owner's manual. Wet brakes may have reduced stopping ability. Test your brakes after leaving water. If necessary, apply them lightly several times to let friction dry out the pads.
- Always be sure there are no obstacles or people behind your vehicle when operating in reverse. When it's safe to proceed in reverse, move slowly. Avoid turning at sharp angles in reverse.
- Always use the proper size and type of tires specified in this manual. Always maintain proper tire pressure as specified on safety labels.
- Never modify this vehicle through improper installation or use of accessories.
- Never exceed the stated load capacity for this vehicle. Cargo should be properly distributed and securely attached. Reduce speed and follow the instructions in this manual for hauling cargo, with attachments installed or pulling a trailer. Allow a greater distance for braking. Keep the attachment arm low (if equipped) and slow down when turning.
- Check that the attachment is securely fastened to the machine.
- Check for underground lines before operating attachment (if applicable).
- Disengage PTO (if equipped), put the gear selector lever in PARK, stop the engine and make sure all rotating components are stopped before exiting utility vehicle.
- Always stop the engine before refueling. Remove flammable material containers from the box before filling them with fuel. Make sure the refueling area is well ventilated and free of any source of flame or sparks. Fuel is extremely flammable. See your BRUTUS owner's manual for fuel safety warnings.
- Always remove the ignition key when the vehicle is not in use to prevent unauthorized use or accidental starting.

FOR MORE INFORMATION ABOUT SAFETY, call POLARIS at 1-800-342-3764.

Operator Safety

Equipment Modifications

We strongly recommend that consumers do not install on a POLARIS BRUTUS any equipment that may increase the speed or power of the vehicle, or make any other modifications to the vehicle for these purposes. Any modifications to the original equipment of the vehicle create a substantial safety hazard and increase the risk of bodily injury.

The warranty on your POLARIS BRUTUS is terminated if any equipment has been added to the vehicle, or if any modifications have been made to the vehicle, that increase its speed or power.

The addition of certain accessories, including (but not limited to) mowers, blades, tires, sprayers, or large racks, may change the handling characteristics of the vehicle. Use only POLARIS-approved accessories and attachments, and familiarize yourself with their function and effect on the vehicle.

WARNING!

Failure to operate the BRUTUS properly can result in a collision, loss of control, accident or overturn, which may result in serious injury or death. Heed all safety warnings outlined in this section of the owner's manual. See the OPERATION section of the owner's manual for proper operating procedures.

Age Restrictions

This vehicle is an ADULT VEHICLE ONLY. NEVER operate this vehicle if you are under age 16 and NEVER operate without a valid driver's license.

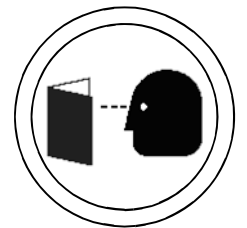
No person under the age of 12 may ride as a passenger in this vehicle. Any passenger must be able to comfortably reach the floor and hand holds.



Operating Without Instruction

Operating this vehicle without proper instruction increases the risk of an accident. The operator must understand how to operate the vehicle properly in different situations and on different types of terrain.

All operators must read and understand the Owner's Manual and all warning and instruction labels before operating the vehicle and attachment.



Using Alcohol or Drugs

Operating the vehicle after consuming alcohol or drugs could adversely affect operator judgment, reaction time, balance and perception.

Never drink alcohol or use drugs or medications before or while operating this vehicle.



Seat Belts

Riding in this vehicle without wearing the seat belt increases the risk of serious injury in the event of an accident or sudden stop. Riders *must* wear seat belts at all times. Seat belts reduce the severity of injury in the event of a sudden stop or accident. Always make sure the seat belts are secured for both the operator and passengers before riding.

Protective Eyewear

Riding in this vehicle without wearing protective eye wear increases the risk of a serious injuries in the event of an accident. Operator and all passengers *must* always wear approved eye protection (goggles).

Operating With a Load on the Vehicle

The weight of both cargo, passengers and attachments impacts vehicle operation. For your safety and the safety of others, carefully consider how your vehicle is loaded and how to safely operate the vehicle. Follow the instructions in this manual for loading, tire pressure, gear selection and speed.

- **Do not exceed vehicle weight capacities.** The vehicle's maximum weight capacity is listed in the specifications section of the owner's manual and on a label on the vehicle. When more passenger weight is added, cargo weight may need to be reduced accordingly.
- The recommended tire pressures are listed in the specifications section of the BRUTUS owner's manual.

Always follow these guidelines:

Under ANY of these conditions:	Do ALL of these steps:
Passenger and/or cargo exceeds half the maximum weight capacity	1. Slow down. 2. Verify tire pressure. 3. Use extra caution when operating.
Operating in rough terrain	
Operating over obstacles	
Climbing an incline	
Towing	
Operating with attachments installed	

SAFETY

Failure to Inspect Before Operating

Failure to inspect and verify that the vehicle is in safe operating condition before operating increases the risk of an accident.

Always inspect your BRUTUS and attachment before each use to make sure it's in safe operating condition.

Always follow all inspection and maintenance procedures and schedules described in the owner's manual.

Exposure to Exhaust

Engine exhaust fumes are poisonous and can cause loss of consciousness or death in a short time. Never start the engine or let it run in an enclosed area.

The engine exhaust from this product contains chemicals known to cause cancer, birth defects or other reproductive harm. Operate this vehicle only outdoors or in well-ventilated areas.

Operating a Damaged Vehicle

Operating a damaged vehicle or attachment can result in an accident. After any overturn or accident, have a qualified service dealer inspect the entire machine for possible damage, including (but not limited to) brakes, throttle and steering systems.

Operating at Excessive Speeds

Operating this vehicle at excessive speeds increases the operator's risk of losing control. Always operate at a speed that's appropriate for the terrain, the visibility and operating conditions, your skills and your passengers' skills.

Turning Improperly

Turning improperly could cause loss of traction, loss of control, accident or overturn. Always follow proper procedures for turning. Never turn abruptly or at sharp angles. Never turn at high speeds. Practice turning at slow speeds before attempting to turn at faster speeds.

Operating on Public Roads

Operating this vehicle on public streets, roads or highways could result in a collision with another vehicle.

Never operate this vehicle on any public street, road or highway, including dirt and gravel roads. In some areas it's unlawful to operate this vehicle on public streets, roads and highways.

Jumps and Stunts

Attempting wheelies, jumps and other stunts increases the risk of an accident or overturn. Never attempt wheelies, jumps, or other stunts. Avoid exhibition driving.

Operating in Unfamiliar Terrain

Failure to use extra caution when operating on unfamiliar terrain could result in an accident or overturn. Unfamiliar terrain may contain hidden rocks, bumps, or holes that could cause loss of control or overturn.

Travel slowly and use extra caution when operating on unfamiliar terrain. Always be alert to changing terrain conditions.

Operating on Slippery Terrain

Failure to use extra caution when operating on excessively rough, slippery or loose terrain could cause loss of traction, loss of control, accident or overturn.

Do not operate on excessively slippery surfaces.

Always reduce speed and use additional caution when operating on slippery surfaces.

Improper Hill Climbing

Climbing hills improperly can cause loss of control or vehicle overturn. Always follow proper procedures for climbing hills as described in the BRUTUS owner's manual.

Stalling While Climbing a Hill

Stalling or rolling backwards while climbing a hill could cause an overturn. Always maintain a steady speed when climbing a hill.

If all forward speed is lost:

- Apply the brakes.
- Place the transmission in reverse and slowly allow the vehicle to roll straight downhill while applying light brake pressure to control speed.

If you begin rolling downhill:

- Never apply engine power.
- Apply the brakes gradually until the vehicle is fully stopped.
- Place the transmission in reverse and slowly allow the vehicle to roll straight downhill while applying light brake pressure to control speed.

Improper Tire Maintenance

Operating this vehicle with improper tires or with improper or uneven tire pressure could cause loss of control or accident.

Always use the size and type of tires specified for your vehicle.

Always maintain proper tire pressure as described in the owner's manual and on safety labels.

Operating on Frozen Bodies of Water

Severe injury or death can result if the vehicle and/or the operator fall through the ice. Never operate the vehicle on a frozen body of water unless you have first verified that the ice is sufficiently thick to support the weight and moving force of the vehicle, you and your passengers, and your cargo, together with any other vehicles in your party. Always check with local authorities and residents to confirm ice conditions and thickness over your entire route. Vehicle operators assume all risk associated with ice conditions on frozen bodies of water.

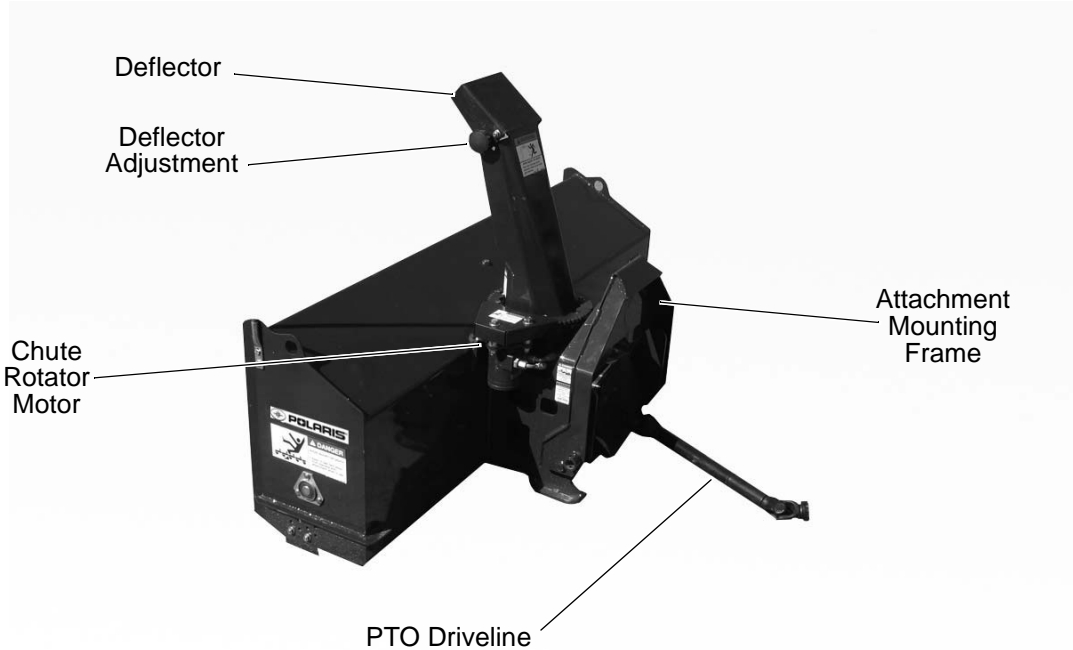
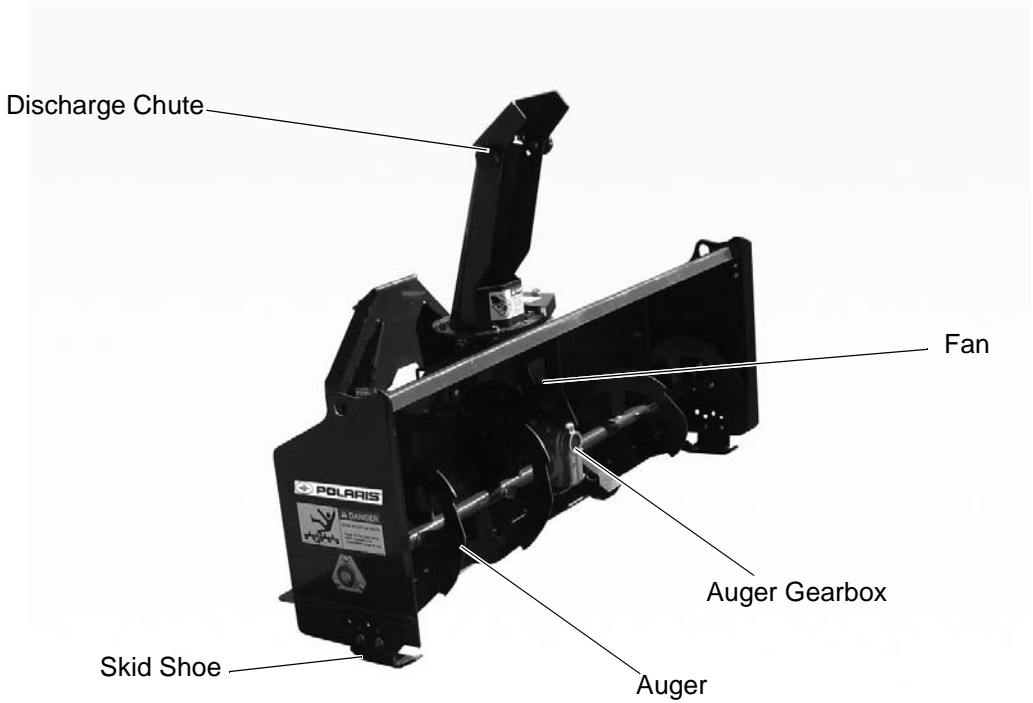
Unauthorized Use of the Vehicle

Leaving the keys in the ignition can lead to unauthorized use of the vehicle, which could result in an accident or overturn. Always remove the ignition key when the vehicle is not in use.

Hot Exhaust Systems

Exhaust system components are very hot during and after use of the vehicle. Hot components can cause burns and fire. Do not touch hot exhaust system components. Always keep combustible materials away from the exhaust system. Use caution when traveling through tall grass, especially dry grass.

Component Locations



FEATURES AND ACCESSORIES

Standard Items

The snow blower is equipped with the following Standard items:

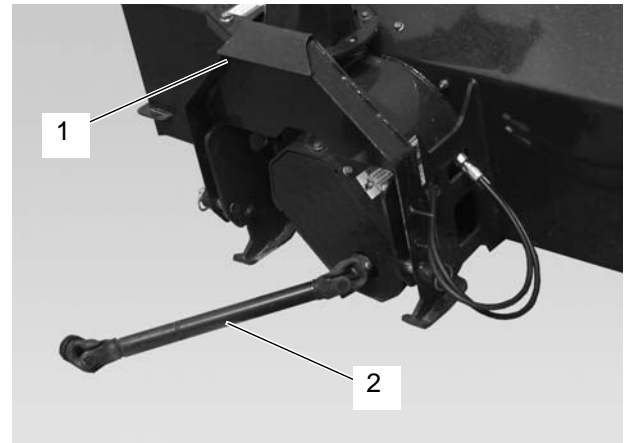
- PTO- Category 1 Driveline
- Shear Bolt Drive Protection
- Adjustable and Replaceable Skid Shoes
- Manual Adjustable Deflector
- Reversible / Replaceable Bolt-On Cutting Edge
- Hydraulic Discharge Chute Rotation

Snow Blower Mounting Frame

Inspect the mounting flange (Item 1) and all welds on the attachment for wear or damage each time the attachment is removed from the machine. Inspect the input shaft and PTO driveline for damage (Item 2).

Check the following items at the start of the work day:

- Check for damaged or missing decals. Replace if necessary.
- Replace any worn or damaged parts immediately.

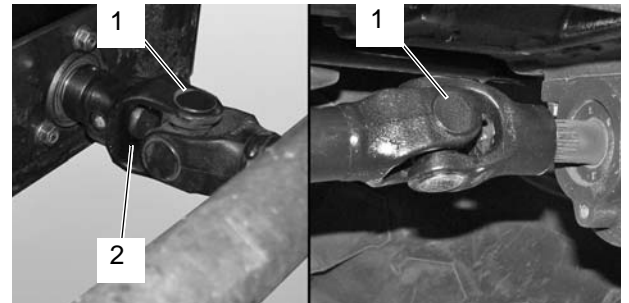


PTO Driveline

Inspect the driveline assembly for wear or damage.

Replace damaged or worn U-joints (Item 1).

Inspect the snap rings (Item 2) for damage or missing. Replace damaged or missing snap rings.



DAILY INSPECTION PRO-TACH Attachment Mounting Frame

WARNING!

AVOID INJURY OR DEATH

- Disengage the PTO, put the Gear Selector Lever in PARK, stop the engine and make sure all rotating components are completely stopped before connecting, disconnecting, adjusting or cleaning any PTO driven equipment.
- Always keep PTO shields and all guards in place when using PTO driven equipment.
- Disengage PTO for road travel.



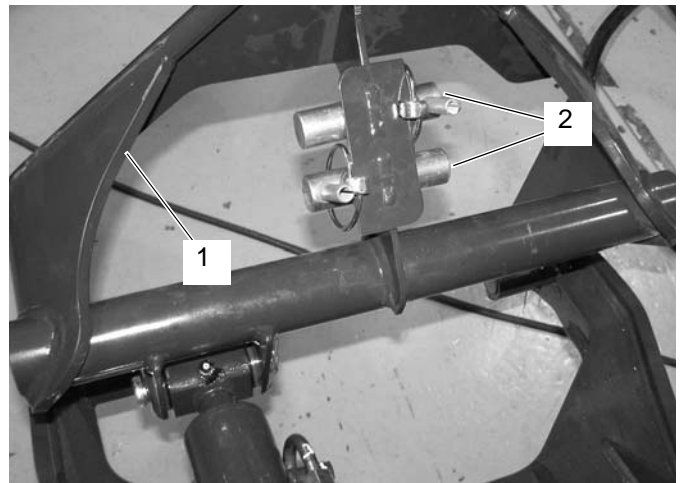
WARNING!

MACHINE ROLLAWAY CAN CAUSE SERIOUS INJURY OR DEATH

Place the gear selector lever in PARK before leaving the operator's seat.

Inspect the mounting frame (Item 1) and all welds on the attachment mount for wear and damage each time the attachment is removed from the machine.

Check the attachment mounting pins (Item 2) for wear or damage. ensure mounting pins are securely fastened in their storage location.



Approved Utility Vehicle Models And Requirements

UTILITY VEHICLE	SB62
BRUTUS HDPTO	X

The above chart lists the snow blower approved for use on the BRUTUS HDPTO.

The warranty is void if this attachment is used on a non-approved carrier. See your Polaris dealer for an updated list of approved carriers.

WARNING!

Never use attachments or buckets which are not approved by Polaris. Attachments and buckets for safe loads of specified densities are approved for each model. Unapproved attachments and buckets can cause injury or death.

The utility vehicle must be equipped with front auxiliary hydraulics (Item 1) for proper operation of the chute rotation. See your dealer for available kits for your model utility vehicle.



OPERATION

Entering and Existing The Utility Vehicle

Entering

WARNING!

Operator must have instructions before operating the machine. Untrained operators can cause injury or death.

WARNING!

AVOID INJURY OR DEATH

When operating the machine:

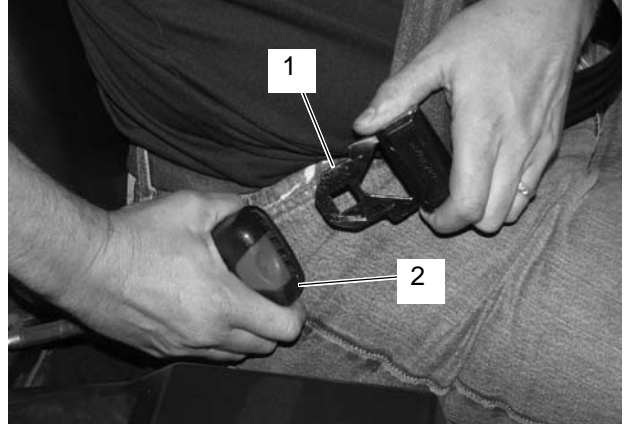
- Operate only from the driver's seat.
- Keep the seat belts fastened snugly.
- Keep entire body inside the vehicle.

Enter and exit the operator seat of the utility vehicle from the left side.

Tip: The left side of the utility vehicle as viewed from the operator seat.

Insert the tab (Item 1) into the buckle (Item 2). Position the lap belt as low as possible on the hips – not on the waist, then adjust it to a snug fit by pulling the shoulder portion upward through the latch plate.

Tip: Use a single safety belt for one person at a time. Do not use a single safety belt for two or more people - this includes children.



Exiting

WARNING!

AVOID INJURY OR DEATH

Before leaving the operator seat:

- Park on flat level ground.
- Lower the attachment arm, put the attachment flat on the ground.
- Press the brake and put the gear selector lever in PARK.
- Stop the engine and remove the key.
- Make sure PTO driveline and all rotating parts have come to a complete stop. SEE THE BRUTUS OWNER'S MANUAL FOR MORE INFORMATION.

To release the seat belt, press the buckle release button (Item 1) and allow the belt to retract.

Remove the key to prevent operation of the utility vehicle by unauthorized personnel.

Exit the utility vehicle.



Installation

Installing The Snow Blower

Always inspect the utility vehicle's mounting frame and attachment front mounting frame before installation. See the BRUTUS owner's manual. See Daily Inspection on page 14.

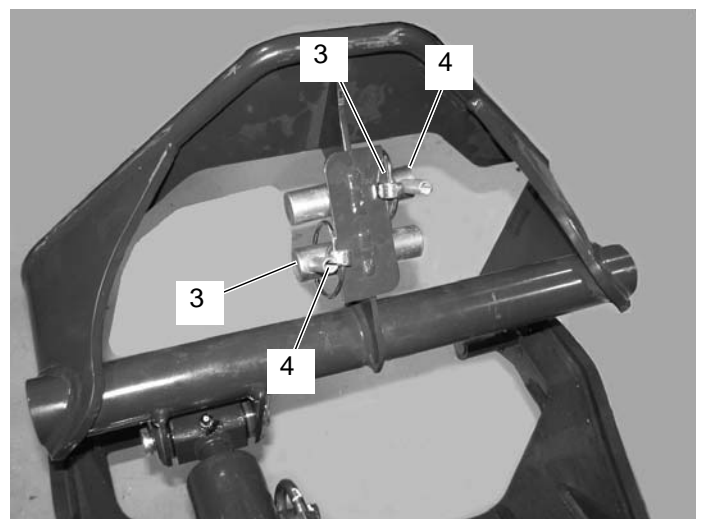
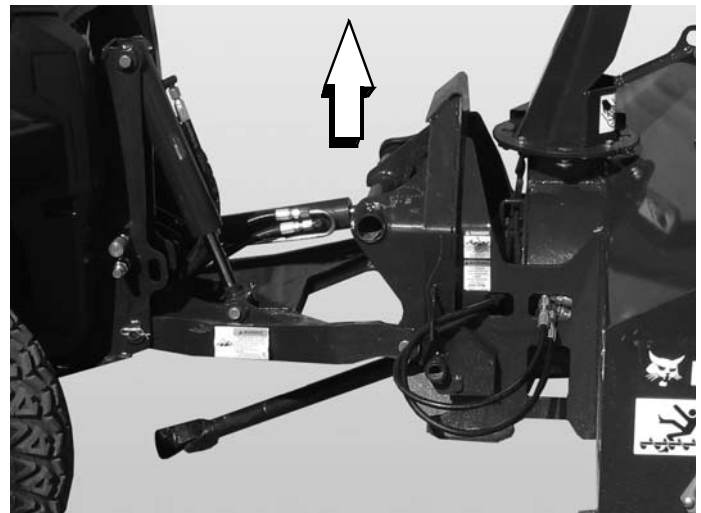
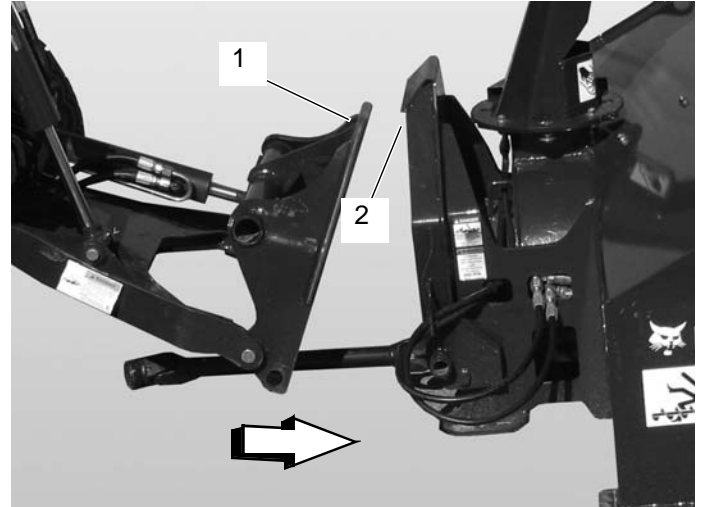
WARNING!

Warnings on the machine and in the manuals are for your safety. Failure to obey warnings can cause serious injury or death.

WARNING!

Keep fingers and hands out of pinch points when installing and removing attachments.

1. Enter the utility vehicle. See page 16.
 2. Start the engine.
 3. Move the gear selector lever to Low.
 4. Tilt the mounting frame (Item 1) of the utility vehicle forward. Slowly drive forward until the front edge of the attachment interface (Item 1) is completely under the top lip of the attachment mounting frame (Item 2).
 5. Raise the utility vehicle's attachment arm until the mounting frame engages the attachment mounting frame and starts to raise the attachment off the ground.
 6. Tilt the attachment interface backward until the attachment is slightly off the ground.
 7. Move the gear selector lever to Park. Stop the engine and exit the utility vehicle. See page 16.
8. Remove the two retainer pins (Item 3) and pins (Item 4) from the storage location on the mounting frame.

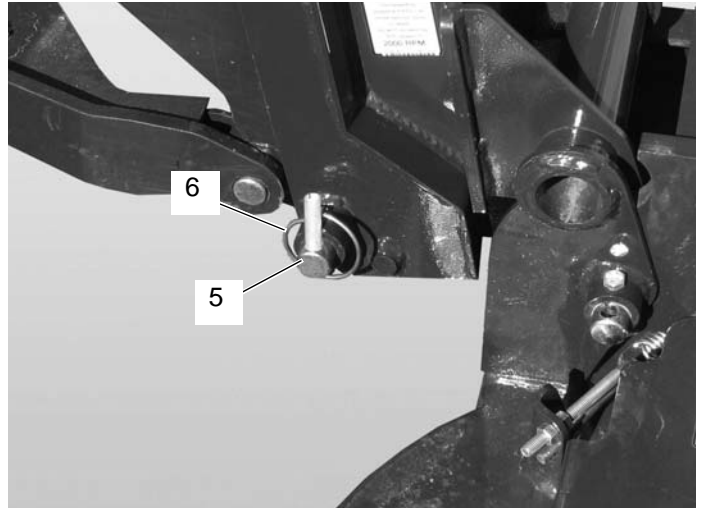


OPERATION

Installation

Installing The Snow Blower

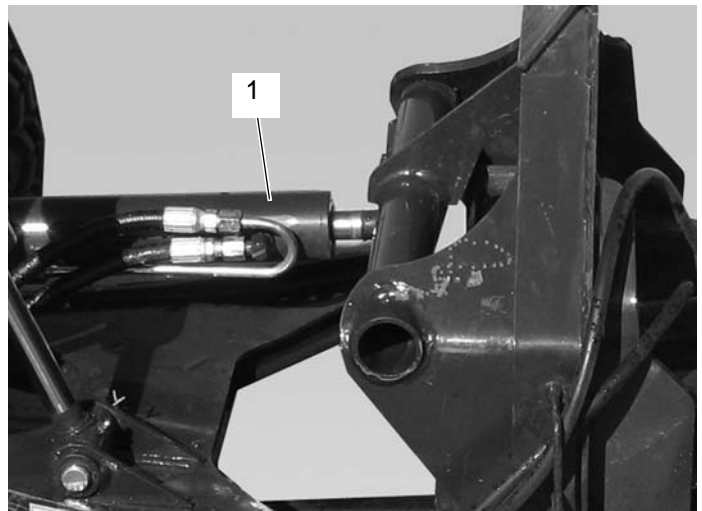
9. Install the pin (Item 5) and retainer pin (Item 6) (both sides).



Leveling The Snow Blower

The snow blower should be leveled before every use. This will position the snow blower parallel to the ground.

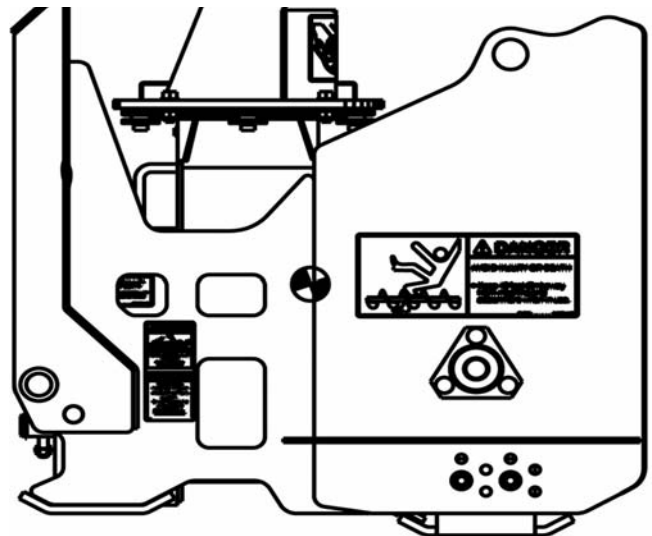
1. The tilt cylinder (Item 1) is used to adjust the front to back level of the attachment.



2. Using the tilt function of the utility vehicle, level the snow blower.
3. Once the attachment is leveled - engage the tilt lock. See page 21.

Tip: Once the attachment is leveled, the tilt function of the utility vehicle can be locked so it does not need to be readjusted. (See the BRUTUS Owner's Manual for additional information).

NOTICE: AVOID PTO DRIVELINE DAMAGE. PTO powered attachments are not compatible with the tilt cylinder full range of motion. Engage the tilt cylinder lock once the attachment is level to prevent PTO driveline damage.



Power Take-Off (PTO) Installation

1. Install the snow blower on the utility vehicle.
2. Always park on flat level ground. Fully lower the arm and put the attachment flat on the ground.
3. Stop the engine and exit the utility vehicle. See page 16.
4. Make sure the PTO driveline and all rotating components have come to a complete stop before exiting the utility vehicle.

WARNING!

AVOID INJURY OR DEATH

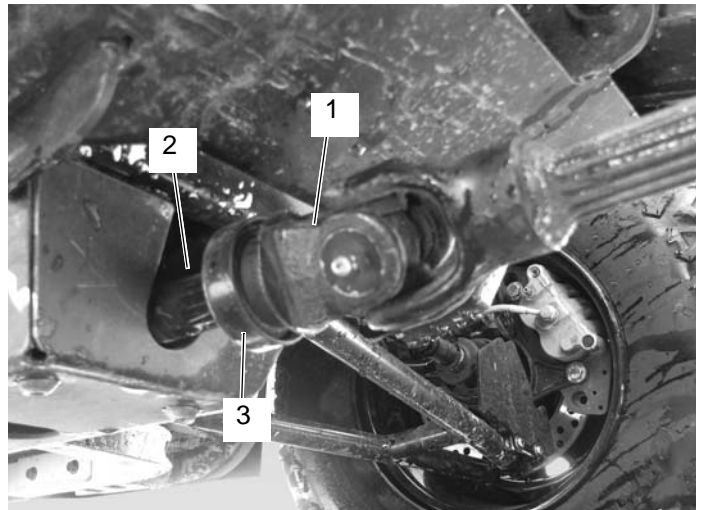
Before leaving the operator's seat:

- Always park machine on flat, level ground.
- Place the gear selector lever in PARK.
- Lower the attachment arm and put the attachment flat on the ground.
- Move the engine speed control lever to low idle.
- Stop the engine and remove the key.
- Make sure PTO driveline and all rotating parts have come to a complete stop.

SEE THE BRUTUS OWNER'S MANUAL FOR MORE INFORMATION:

5. Connect the attachment PTO shaft (Item 1) to the utility vehicle PTO shaft (Item 2).
6. Retract the collar (Item 3) and slide the attachment PTO driveline onto the utility vehicle PTO shaft (Item 2). Release the collar and the driveline will lock onto the PTO shaft. Push and pull the PTO driveline back and forth several times and make sure it is securely attached to the PTO shaft.

Tip: The PTO driveline must have a means to retain it to both the utility vehicle and attachment PTO shaft.



WARNING!

AVOID INJURY OR DEATH

- Keep PTO shield and all guards in place.
- Keep away from moving parts.
- Keep bystanders away.
- Do NOT exceed 2000 PTO RPM.

Removal

WARNING!

AVOID INJURY OR DEATH

Before leaving the operator seat:

- Park on flat level ground.
- Lower the attachment arm, put the attachment flat on the ground.
- Press the brake and put the gear selector lever in PARK.
- Stop the engine and remove the key.
- Make sure PTO driveline and all rotating parts have come to a complete stop.

SEE THE BRUTUS OWNER'S MANUAL FOR MORE INFORMATION.

1. Always park on flat level ground. Fully lower the attachment arm and put the attachment flat on the ground.
2. Stop the engine and exit the utility vehicle. See page 16.
3. Make sure the PTO driveline and all rotating components have come to a complete stop before exiting the utility vehicle.
4. Retract the collar (Item 3) and pull the attachment PTO driveline (Item 1) off the utility vehicle PTO shaft (Item 2).
5. Place the PTO driveline into the attachment storage position (if equipped).
6. Remove the snow blower from the utility vehicle. See page 28.

OPERATION

Hydraulic Quick Couplers

New attachments and new BRUTUS HD and HDPTO models are factory equipped with flush face couplers. If installing an attachment equipped with other couplers, the attachment couplers will have to be changed to match the BRUTUS. See your dealer for parts.

Tip: Make sure the quick couplers are fully engaged. If the quick couplers do not fully engage, check to see that the couplers are the same size and type.

WARNING!

AVOID BURNS

Hydraulic fluid, tubes, fittings and quick couplers can get hot when running machine and attachments. Be careful when connecting and disconnecting quick couplers.

To Connect:

Remove dirt or debris from the both the female and male couplers. Visually check the couplers for corrosion, damage or excessive wear, if any of these conditions exist, the couplers must be replaced. Align the notched out area of the sleeve (Item 1) with the ball on the base (Item 2) and retract the sleeve on the female coupler. Insert the male coupler and push the couplers tightly together. Pull back firmly on the male coupler to make sure the couplers have engaged properly.

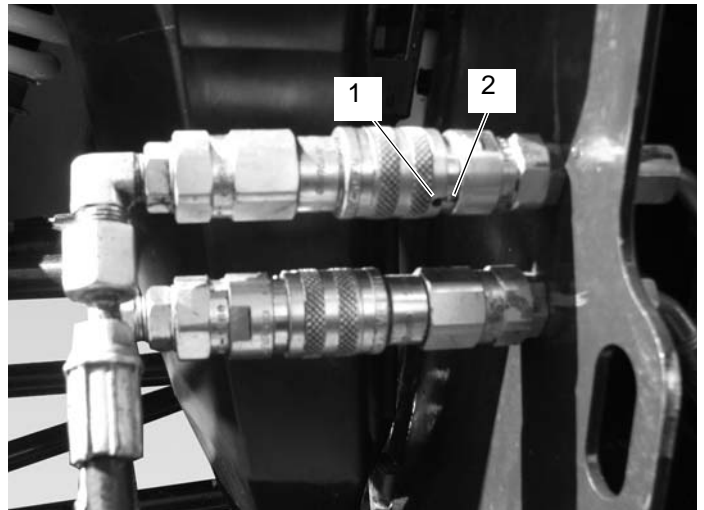
To Disconnect:

Align the notched out area of the sleeve (Item 1) with the ball on the base (Item 2). Push the couplers together, retract the sleeve on the female coupler until the couplers disconnect. Pull to disengage the male coupler.

For First Time Installation

With the utility vehicle's engine off, connect the attachment couplers to the utility vehicle couplers. Check the attachment hoses so they are not twisted and they route to the utility vehicle without contacting any moving parts. Tighten all connections before starting the utility vehicle.

Tip: Check the attachment hydraulic hoses so the hoses are not twisted or contacting any moving parts of the BRUTUS or attachment.



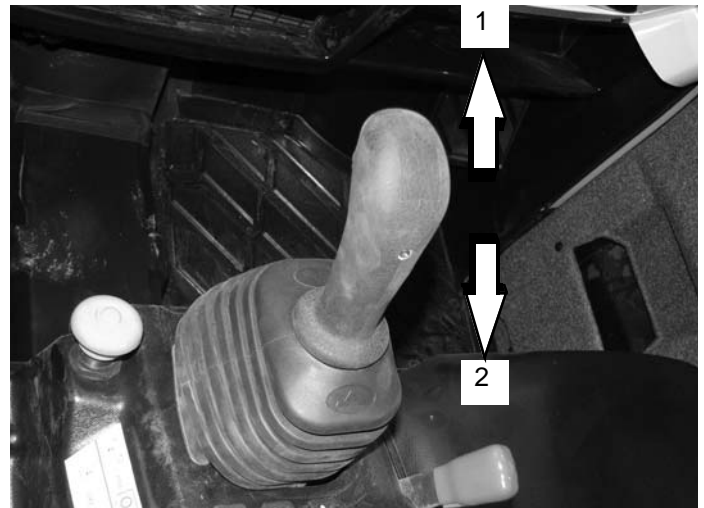
Controls

Joystick

The joystick control lever will be used to control the utility vehicle PRO-TACH attachment system.

Move the joystick control lever forward to lower the attachment arm (Item 1).

Move the joystick control lever backward to raise the attachment arm (Item 2).



Float

Move the joystick control lever all the way forward until it locks in the detent (float) position to have the utility vehicle PRO-TACH in the float position.

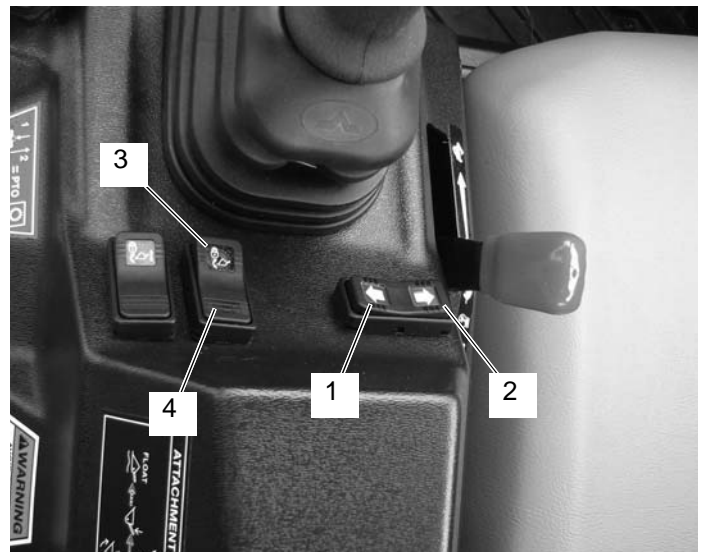
Move the joystick back to disengage float.



Discharge Chute Rotation

Press the switch to the left (Item 1) to rotate discharge chute counterclockwise.

Press the switch to the right (Item 2) to rotate discharge chute clockwise.



Tilt Lock Switch

Press the tilt lockout switch forward (Item 3) to engage the tilt lock.

Press the tilt lockout switch backward (Item 4) to disengage the tilt lock.

NOTICE: AVOID PTO DRIVELINE DAMAGE. PTO powered attachments are not compatible with the tilt cylinder full range of motion. Engage the tilt cylinder lock once the attachment is level to prevent PTO driveline damage.

OPERATION

Controls

Deflector Adjustment

WARNING!

AVOID INJURY OR DEATH

Before leaving the operator seat:

- Park on flat level ground.
- Lower the attachment arm, put the attachment flat on the ground.
- Press the brake and put the gear selector lever in PARK.
- Stop the engine and remove the key.
- Make sure PTO driveline and all rotating parts have come to a complete stop.

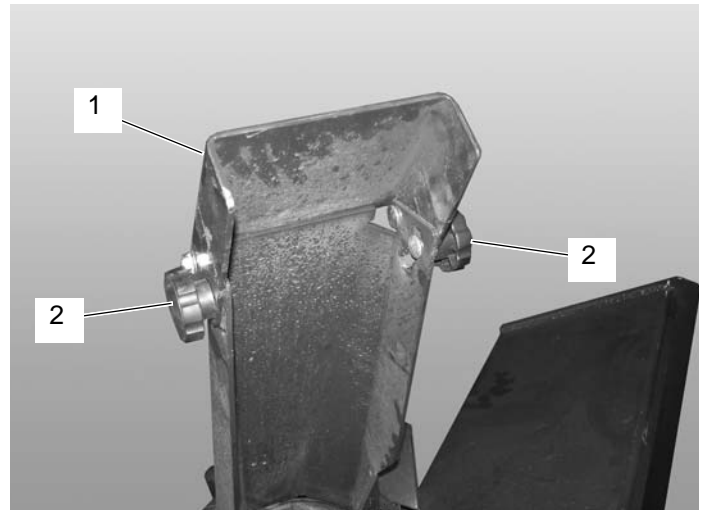
SEE THE BRUTUS OWNER'S MANUAL FOR MORE INFORMATION.

1. Stop the engine and exit the utility vehicle. See page 16.
2. Make sure the PTO driveline and all rotating components have come to a complete stop before exiting the utility vehicle.
3. The deflector (Item 1) can be adjusted to control the distance snow is thrown.
4. To adjust the deflector (Item 1), loosen both the friction knobs (Item 2). Adjust the deflector up or down. Tighten both friction knobs.

WARNING!

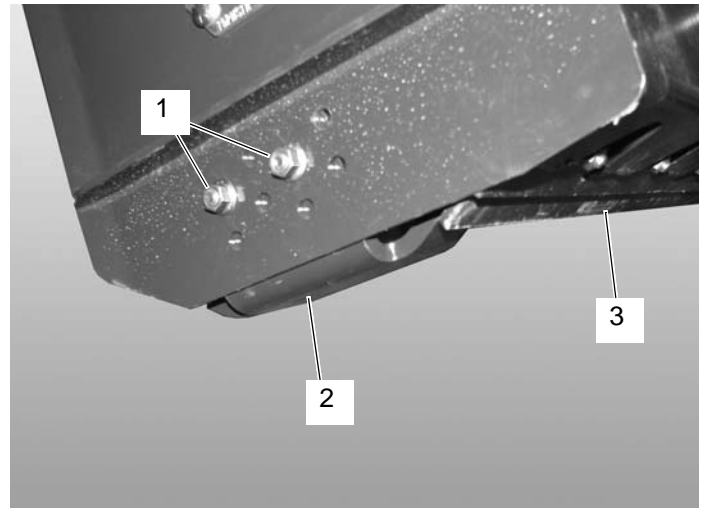
AVOID INJURY OR DEATH

Never direct discharge toward bystanders, building or other property. Foreign objects or ice chunks can be thrown great distances.



Skid Shoe Adjustment

1. Slightly raise the snow blower and support the cutting edge with blocks.
2. Stop the engine and exit the utility vehicle. See page 16.
3. Remove the nuts and bolts (Item 1).
4. Raise skid shoe (Item 2) to lower cutting edge (Item 3).
5. Lower skid shoe (Item 2) to raise cutting edge (Item 3).
6. Tighten the nuts and bolts (Item 1).



Controls For PTO

Safety Rules For PTO Operation

WARNING!

AVOID INJURY OR DEATH

- Do Not exceed the rated attachment PTO speed.
- Stay clear of rotating driveline.
- Keep bystanders away.
- Keep hands, feet, clothing and long hair away.
- Keep PTO shields and guards in place.
- Disengage PTO, put gear selector lever in PARK, stop the engine and make sure all rotating components are stopped before exiting utility vehicle.
- Do Not service the utility vehicle or attachment with the PTO engaged.
- Do Not service the attachment in a raised position unless properly blocked and all rotating components stopped.
- Disengage PTO for road travel.

WARNING!

AVOID INJURY OR DEATH

Before leaving the operator seat:

- Park on flat level ground.
- Lower the attachment arm, put the attachment flat on the ground.
- Press the brake and put the gear selector lever in PARK.
- Stop the engine and remove the key.
- Make sure PTO driveline and all rotating parts have come to a complete stop.

SEE THE BRUTUS OWNER'S MANUAL FOR MORE INFORMATION.

WARNING!

AVOID INJURY OR DEATH

Warnings and instructions in this manual and on the machine are for your protection. Failure to follow the warnings and instructions can cause serious injury or death.

- Keep all shields in place. Replace damaged or missing shields before operating.
- Follow warnings and instructions on machine signs (decals). Replace damaged or missing decals.
- Do not wear loose or bulky clothing around the PTO or other moving parts.
- Keep bystanders away from PTO driven equipment, and never allow children near machines.
- Read and understand the manuals for the PTO driven equipment and be aware of safe operating procedures and hazards that may not be readily apparent.
- Always walk around equipment to avoid coming near a turning PTO driveline. Stepping over, leaning across or crawling under a turning PTO driveline can lead to entanglement.
- Do not install an adapter between the machine PTO shaft and the attachment PTO driveline.
- Never overspeed the PTO.
- Position the machine and attachment correctly to prevent driveline stress and separation.
- Use caution when raising PTO driven attachment. Excessive driveline angle can reduce driveline service life.

WARNING!

DRIVELINE ENTANGLEMENT OR OVERSPEEDING PTO CAN CAUSE SERIOUS INJURY OR DEATH

- DO NOT install an adapter between the utility vehicle PTO shaft and the attachment PTO driveline.
- An adapter can extend the driveline universal joint and connecting yoke beyond the PTO shields.
- An adapter can overspeed the attachment PTO causing driveline or attachment damage.

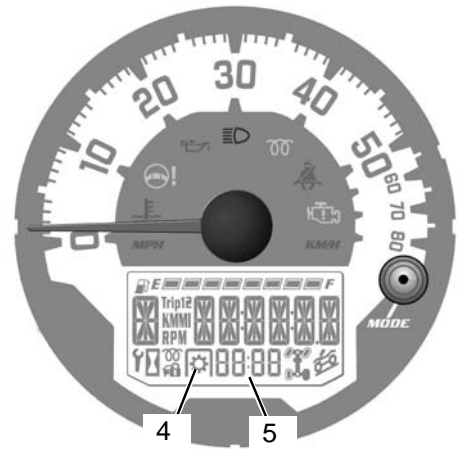
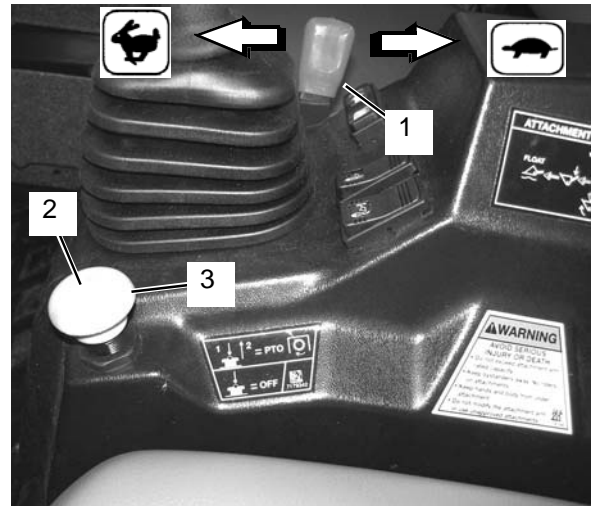
OPERATION

Controls For PTO

Engaging The PTO

1. Enter the utility vehicle. See page 16.
2. Start the engine.
3. Lower the arm and keeping the snow blower 76 - 101 mm (3 - 4 in) from the ground.
4. Move the engine speed control lever (Item 1) to low engine speed.
5. To avoid start-up overload on PTO driveline, reduce engine speed to low idle when engaging the PTO. After PTO driveline is rotating, increase engine speed.
6. Engage the PTO system by pressing the center button (Item 2) and then pulling up on the knob (Item 3). (See the BRUTUS Owner's Manual for detailed information).
7. The front PTO driveline will start to rotate.
8. Move the engine speed lever (Item 1) to increase engine speed to approximately 3600 RPM as indicated on the instrument gauge. Do Not exceed a PTO speed of 2000 RPM. The light (Item 4) in the dash will illuminate and the PTO shaft will start rotating. The PTO shaft RPM will be displayed in the dash (Item 5).

Tip: When the PTO is engaged, the tilt function of the PRO-TACH attachment system will be automatically locked.



WARNING!

AVOID INJURY OR DEATH

- Keep PTO shield and all guards in place.
- Keep away from moving parts.
- Keep bystanders away.
- Do NOT exceed 2000 PTO RPM.

Disengaging The PTO

1. Move the engine speed lever back to the low idle position.
2. Disengage the PTO system by pressing the knob (Item 3) down. (See the Brutus Owner's Manual for detailed information).

Driving The Utility Vehicle and The Snow Blower To The Worksite

Read and understand the attachment Owner's Manual and the BRUTUS Owner's Manual prior to installing or using any attachment.

WARNING!

VEHICLE TIPPING OR ROLLOVER CAN CAUSE SERIOUS INJURY OR DEATH

- Keep the attachment arm as low as possible.
- Turn on level ground. Slow down when turning.
- Go up and down slopes, not across them.
- Keep the heavy end of the vehicle uphill.
- Do not exceed vehicle load capacity.

WARNING!

When operating the machine:

- Operate only from the driver's seat.
- Keep the seat belts fastened snugly.
- Keep entire body inside the vehicle.

Enter the utility vehicle. See page 16.

Start the engine.

Raise the snow blower to the travel position. See Controls on page 21.

Tip: Keep the snow blower as low as possible for travel.

Drive the utility vehicle and attachment to the work area.



OPERATION

Operating The Snow Blower

The snow blower is used to clear snow from sidewalks, driveways and parking lots.

Tip: Damage to the snow blower and the BRUTUS may be caused if the PTO is engaged while in the travel position.

WARNING!

AVOID INJURY OR DEATH

Never direct discharge toward bystanders, building or other property. Foreign objects or ice chunks can be thrown great distances.

NOTICE: AVOID PTO DRIVELINE DAMAGE. PTO powered attachments are not compatible with the tilt cylinder full range of motion. Engage the tilt cylinder lock once the attachment is level to prevent PTO driveline damage.



1. Adjust the skid shoes to set the cutting edge height. See page 22.
2. Adjust the tilt cylinder to set the cutting edge level with the ground. Engage the tilt lock. See page 18.
3. Adjust deflector to control the distance the snow is thrown. See page 22.
4. Enter the utility vehicle. See page 16.
5. Start the engine.
6. Rotate the discharge chute to the desired position. See page 21.
7. Lower the attachment, keeping the snow blower 76 - 101 mm (3 - 4 in) from ground. See page 25.
8. Engage the PTO. See page 23.
9. Lower the snow blower setting the skid shoes on the ground.
10. Slowly drive the utility vehicle forward. Watch for and avoid obstructions and obstacles that may cause damage to the snow blower and utility vehicle.

NOTICE: Damage to the snow blower and utility vehicle may occur by hitting objects that can be easily hidden in the snow.

11. When at the end of a pass, stop and raise the snow blower 76 - 101 mm (3 - 4 in) from ground. Use caution when raising the snow blower when the PTO is engaged, if the snow blower is raised too high, the attachment PTO shaft may bind causing damage.

Tip: Caution is to be used when raising the snow blower when the PTO is engaged.

Tip: If additional lift height is required for travel, disengage the PTO, then raise the snow blower to desired height.

12. Drive the utility vehicle to the desired starting point, while moving over up to 3/4 the width of the snow blower.
13. Follow steps 9 through 12 until the area is cleared.

The utility vehicle speed is determined by the depth and density of the snow.

WARNING!

FLYING OBJECTS AND ROTATING PARTS CAN CAUSE INJURY OR DEATH

- Stay at least 3 m (10 ft) away from operating equipment.
- Stop engine before cleaning or servicing.
- Keep all guards in place.

Disengage the PTO when finished clearing snow from the work area. See page 24.

Clearing The Discharge Chute

If the discharge chute becomes plugged, disengage the PTO system. See page 24. See the Brutus owner's manual for additional information.

WARNING!

AVOID INJURY OR DEATH

Before leaving the operator seat:

- Park on flat level ground.
- Lower the attachment arm, put the attachment flat on the ground.
- Press the brake and put the gear selector lever in PARK.
- Stop the engine and remove the key.
- Make sure PTO driveline and all rotating parts have come to a complete stop.

SEE THE BRUTUS OWNER'S MANUAL FOR MORE INFORMATION.

Always park on flat level ground. Fully lower the attachment arm and put the attachment flat on the ground. Press the brake pedal and put the gear selector lever in PARK.

Place all controls in neutral. Stop the engine and exit the utility vehicle. See page 16.

Make sure the PTO driveline and all rotating components have come to a complete stop before exiting the utility vehicle.

DANGER



AVOID INJURY OR DEATH

- Stop engine before placing hand in discharge chute.
- Rotating fan blades can crush and dismember.

Remove the snow or foreign material plugging the discharge chute.

Verify shear bolts are still intact and not missing. Replace shear bolts if missing. See page 39.

Enter the utility vehicle. See page 16.

Start the engine.

Engage the PTO system. See the BRUTUS owner's manual for detailed information.

Lower the snow blower setting the skid shoes on the ground. Slowly start driving forward into the snow to make sure the discharge chute is unplugged.

OPERATION

Removal

Removing The Snow Blower

Tip: In muddy conditions or to prevent the attachment from freezing to the ground, put the attachment on planks or blocks before removing the attachment from the machine.

WARNING!

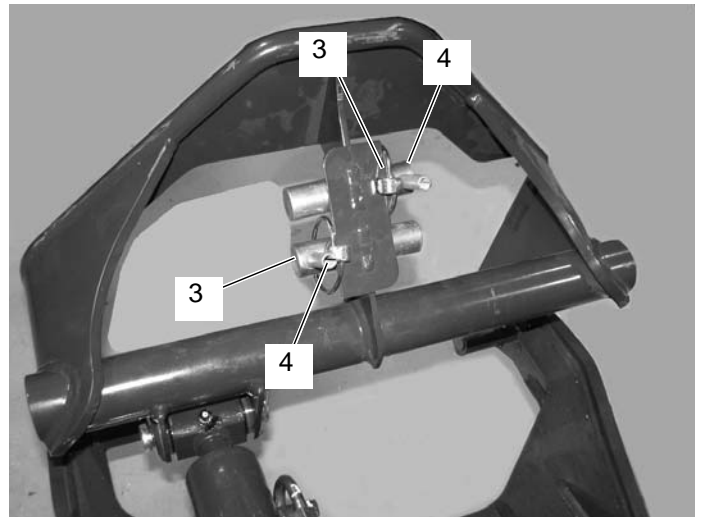
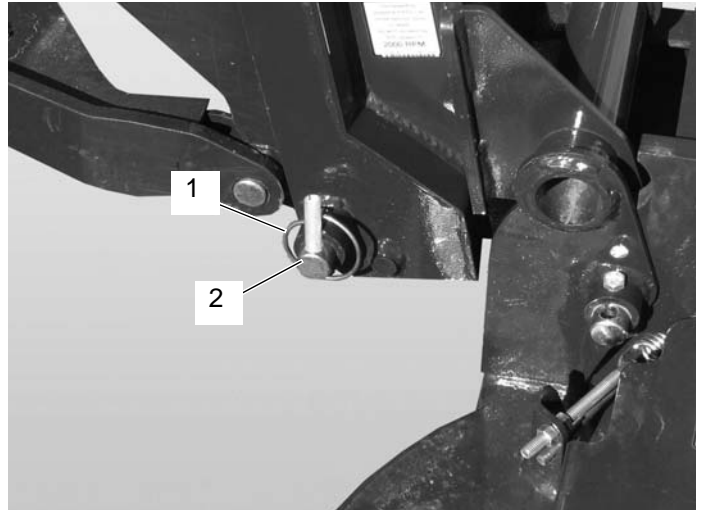
AVOID INJURY OR DEATH

Before leaving the operator seat:

- Park on flat level ground.
- Lower the attachment arm, put the attachment flat on the ground.
- Press the brake and put the gear selector lever in PARK.
- Stop the engine and remove the key.
- Make sure PTO driveline and all rotating parts have come to a complete stop.

SEE THE BRUTUS OWNER'S MANUAL FOR MORE INFORMATION.

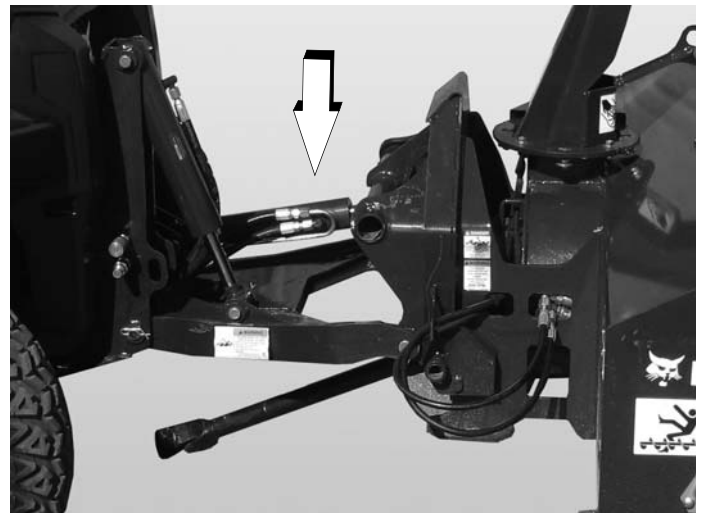
1. Always park on flat level ground. Fully lower the attachment arm and put the attachment flat on the ground.
2. Stop the engine.
3. Release auxiliary hydraulic pressure. See the BRUTUS owner's manual for the correct procedure.
4. Exit the utility vehicle. See page 16.
5. Disconnect the PTO driveline. See page 24.
6. Enter the utility vehicle. See page 16.
7. Start the engine.
8. With the gear selector lever in PARK, raise the snow blower until it is slightly off the ground.
9. Stop the engine and exit the utility vehicle. See page 16.
10. Remove the retaining pins (Item 1) (both sides).
11. Remove the pins (Item 2) (both sides).
12. Install the two pins (Item 3) and retaining pins (Item 4) in the storage location on the mounting frame.



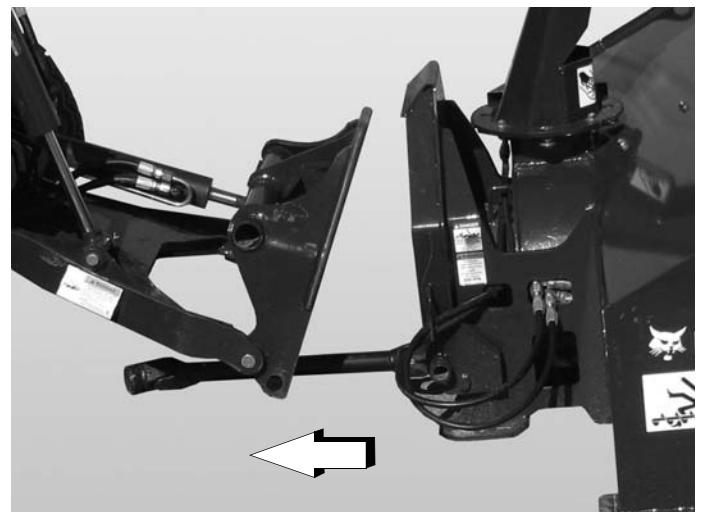
Removal

Removing The Snow Blower

13. Slowly lower the attachment arm and tilt it forward until the attachment is released from the mounting frame. See page 28.



14. Slowly drive the Brutus backwards away from the attachment.

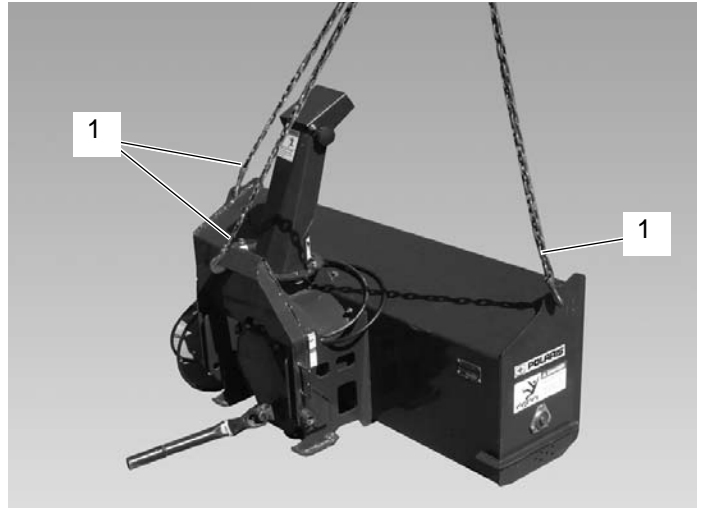


LIFTING THE ATTACHMENT

Procedure

Fasten the chain to the snow blower (Item 1).

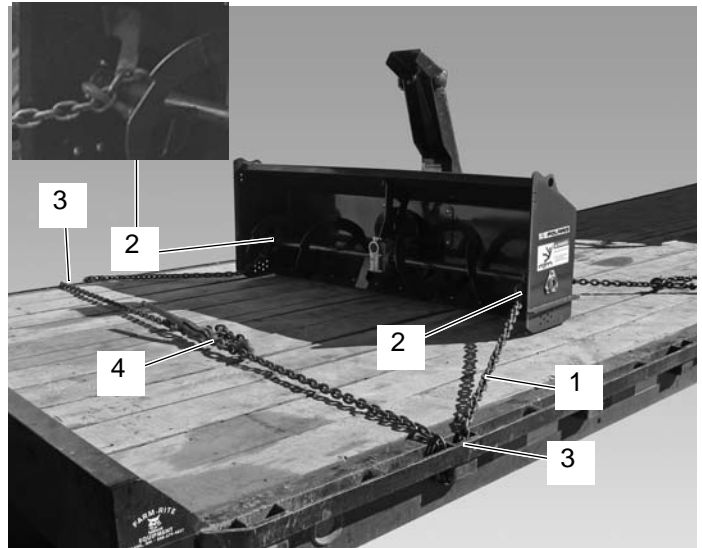
Tip: Use chains that are in good condition and of adequate size to lift the attachment.



TRANSPORTING THE ATTACHMENT ON A TRAILER

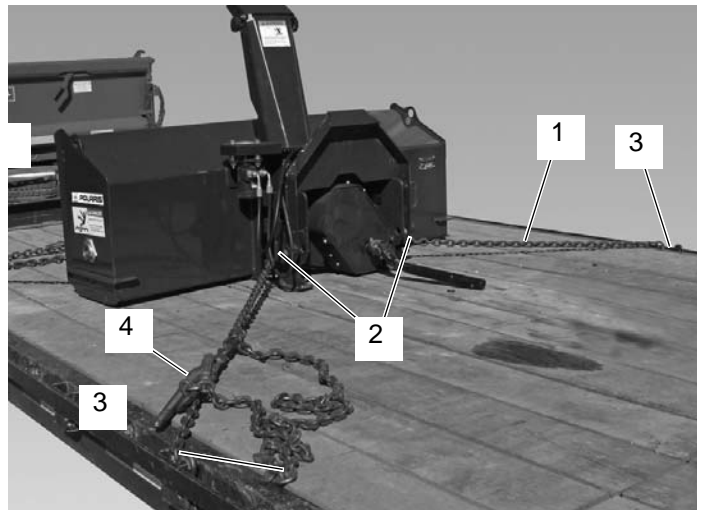
Fastening

With the snow blower on the transport vehicle, place the chain (Item 1) around the outer auger shaft (Item 2). Route chain through the tie downs (Item 3). Place the chain around the other end of the outer auger shaft (Item 2).



Install a second chain (Item 1) to the snow blower frame (Item 2). Route the chain through the tie downs (Item 3). Install the chain to the opposite side of the snow blower frame (Item 2).

Use chain binders (Item 4) to prevent the snow blower from moving during transport.



TRANSPORTING THE ATTACHMENT ON A TRAILER

Loading and Fastening

WARNING!

AVOID INJURY OR DEATH

Adequately designed ramps of sufficient strength are needed to support the weight of the machine when loading onto a transport vehicle. Wood ramps can break and cause personal injury.

Be sure the transport and towing vehicles are of adequate size and capacity for weight of machine and attachment combination. (See utility vehicle and attachment Owner's Manuals for specifications.)

Loading

The rear of the trailer must be blocked or supported when loading and unloading to prevent the front of the trailer from raising.

- Load the heaviest end of the machine and attachment combination first.
- Lower the attachment to the floor.
- Stop the engine.
- Exit the utility vehicle. See page 16.

Fastening

Install the chains at the front and rear tie down positions on the BRUTUS. See BRUTUS owner's manual for procedure.

- Install chains on the attachment (if needed).
- Fasten each end of the chain to the transport vehicle and secure with chain binders.

Tip: Use chain binders to prevent the attachment and machine from moving during transport.

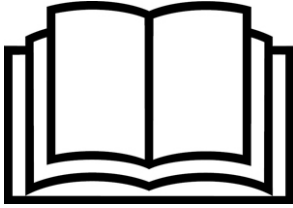


MAINTENANCE SAFETY

WARNING!

Instructions are necessary before operating or servicing machine. Read and understand the Owner's Manual, Operator's Handbook and signs (decals) on machine. Follow warnings and instructions in the manuals when making repairs, adjustments or service. Check for correct function after adjustments, repairs or service. Untrained operators and failure to follow instructions can cause injury or death.

CORRECT



WARNING!

Never service attachments without instructions. See Owner's Manual and Attachment Service Manual.

WARNING!

Cleaning and maintenance are required daily.

WARNING!

Never service or adjust attachment with the engine running unless instructed to do so in manual.

WARNING!

Always lower the attachment to the ground before lubricating or servicing.

WARNING!

Avoid contact with leaking hydraulic fluid or diesel fuel under pressure. It can penetrate skin or eyes.

WARNING!

Stop, cool and clean engine of flammable materials before checking fluids.

WARNING!

Keep body, loose objects and clothing away from moving parts, electrical contacts, hot parts and exhaust.

WARNING!

Safety glasses are needed for eye protection from electrical arcs, battery acid, compressed springs, fluids under pressure and flying debris or when tools are used. Use eye protection approved for type of welding.

TROUBLESHOOTING

WARNING!

Instructions are necessary before operating or servicing machine. Read and understand the Owner's Manual, Operator's Handbook and signs (decals) on machine. Follow warnings and instructions in the manuals when making repairs, adjustments or service. Check for correct function after adjustments, repairs or service. Untrained operators and failure to follow instructions can cause injury or death.

Chart

PROBLEM	CAUSE	CORRECTION
Snow blower does not operate.	Damaged or incorrect connection of the PTO shaft.	Check connection, connect properly, repair or replace.
	Auger shear bolt has sheared / missing.	Replace bolt.
	Fan shear bolt has sheared or missing.	Replace bolt.
Snow blower cuts too low / too high.	Skid shoes out of adjustment.	Raise or lower skid shoes as needed.
	Top link set wrong.	Adjust top link as needed.
Chute does not rotate.	Damaged quick couplers.	Replace quick couplers.
	Damaged hydraulic motor.	Repair or replace.
	Worn teeth on gear (motor or chute).	Adjust gear mesh by adjusting hydraulic motor placement, or replace gears.
	Orifice plugged.	Remove the orifice fittings and clean the fittings and re-install. If problem still persists, replace orifice fittings.

SERVICE SCHEDULE

Description

Maintenance work must be done at regular intervals. Failure to do so will result in excessive wear and early failures. The service schedule is a guide for correct maintenance of the attachment.

WARNING!

Instructions are necessary before operating or servicing machine. Read and understand the Owner's Manual, Operator's Handbook and signs (decals) on machine. Follow warnings and instructions in the manuals when making repairs, adjustments or service. Check for correct function after adjustments, repairs or service. Untrained operators and failure to follow instructions can cause injury or death.

Chart

SERVICE SCHEDULE		FREQUENCY			
ITEM	SERVICE REQUIRED	DAILY	2 HOURS	10 HOURS	50 HOURS/YEARLY
Attachment Frame Inspection.	Inspect for cracks or damage.				
Skid Shoe Inspection.	Inspect for excess wear, cracks, damage and loose hardware.				
Check Chute Rotation Gears.	Adjust and/or replace gears as required.				
Grease PTO Shaft.	Grease PTO shaft and knuckles.				
Lubricate the Drive Chain.	Lubricate the drive chain with chain lubricant. See your dealer.				
Replace Gearbox Lube.	Drain and replace fluid (Approximately 10.2 fl. oz. (0.3 L) of Polaris Premium Angle Drive Fluid).			[1]	

[1] Service at first 10 hours and then as scheduled.

MAINTENANCE

Auger Gearbox Fluid.

WARNING!

AVOID INJURY OR DEATH

Wear safety glasses to prevent eye injury when any of the following conditions exist:

- When fluids are under pressure.
- Flying debris or loose material is present.
- Engine is running.
- Tools are being used.

Tip: Fluid such as engine oil, hydraulic fluid, coolants, grease, etc. must be disposed of in an environmentally safe manner. Some regulations require that certain spills and leaks on the ground must be cleaned in a specific manner. See local, state and federal regulations for the correct disposal.

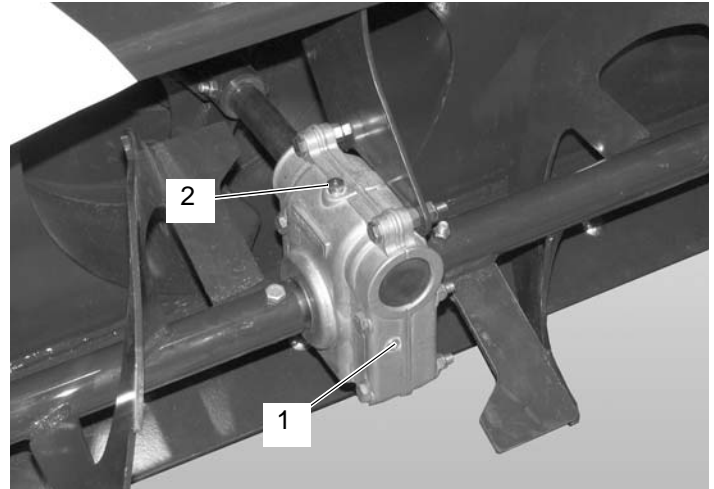
Check for proper oil level in the gearbox.

Remove the check plug (Item 1). The oil should flow from the check port.

If the oil does not flow out of the check port, remove the breather / fill plug (Item 2).

Add oil (Polaris Premium Angle Drive Fluid) until the oil begins to flow out of the check port.

Reinstall check plug and breather / fill plug.



Cleaning The Snow Blower

WARNING!

AVOID INJURY OR DEATH.

Wear safety glasses to prevent eye injury when any of the following conditions exist:

- When fluids are under pressure.
- Flying debris or loose material is present.
- Engine is running.
- Tools are being used.

Stop the machine and attachment on a flat level surface. Put the gear selector lever in PARK. Disengage the PTO and place all controls in neutral. Stop the engine, unfasten the seat belt, remove the key and exit the machine.

Disconnect the PTO driveline. See page 19.

Use water or air pressure to clean debris from the snow blower.

Adjusting Chute Rotation Gears

Remove the two bolts and nuts (Item 1) and cover (Item 2).

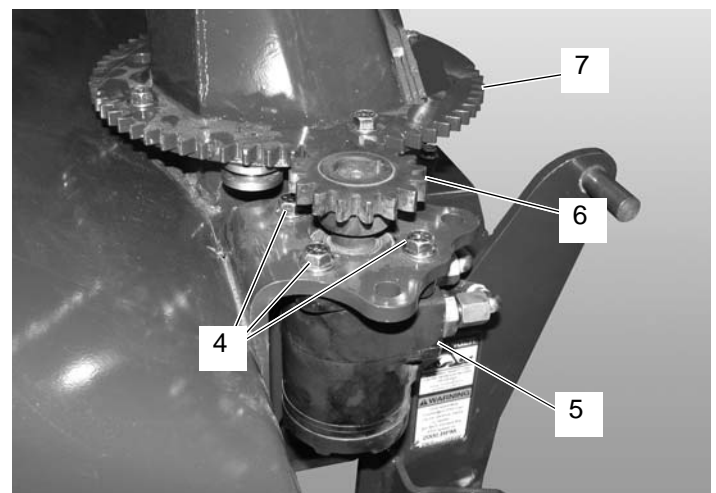
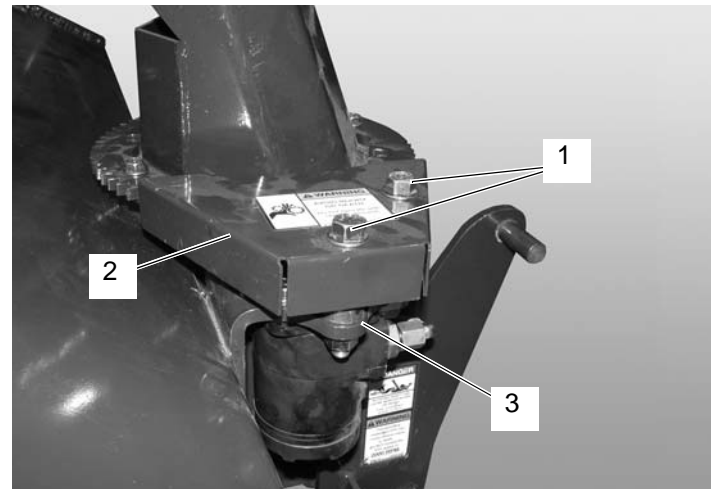
Installation: Install the two bolt standoffs (Item 3) and cover (Item 2). Tighten the two bolts and nuts (Item 1).

Loosen the four bolts (Item 4). Slide the motor (Item 5) until the motor gear (Item 6) meshes with the chute gear (Item 7).

Tip: Leave a small gap between the teeth. Do not bottom the teeth out on each other. Premature tooth wear can result.

Tighten the four bolts (Item 4).

Install the cover.



WARNING!

AVOID INJURY OR DEATH

Never operate with covers or guards removed.

MAINTENANCE

Skid Shoe Adjustment

Slightly raise the snow blower and support the cutting edge with blocks.

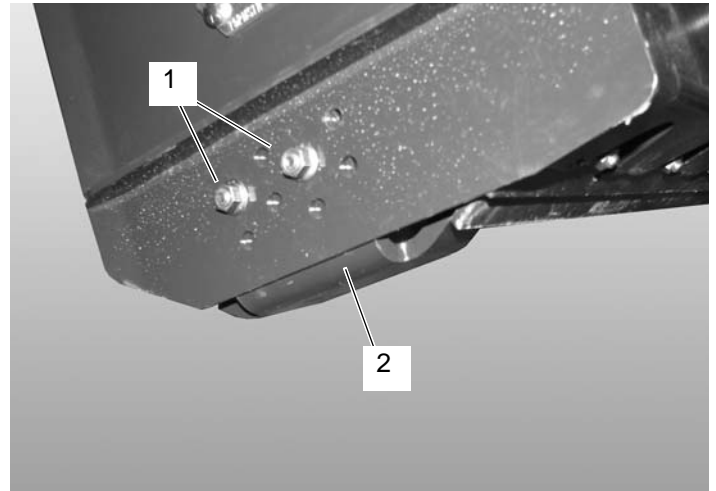
Stop the engine and exit the machine. See page 16.

Loosen the bolts (Item 1). Adjust the skid shoe to the desired height (Item 2). Tighten the bolts (Item 1).

Loosen the bolts (Item 1). Adjust the skid shoe to the desired height (Item 2).

Tighten the bolts (Item 1).

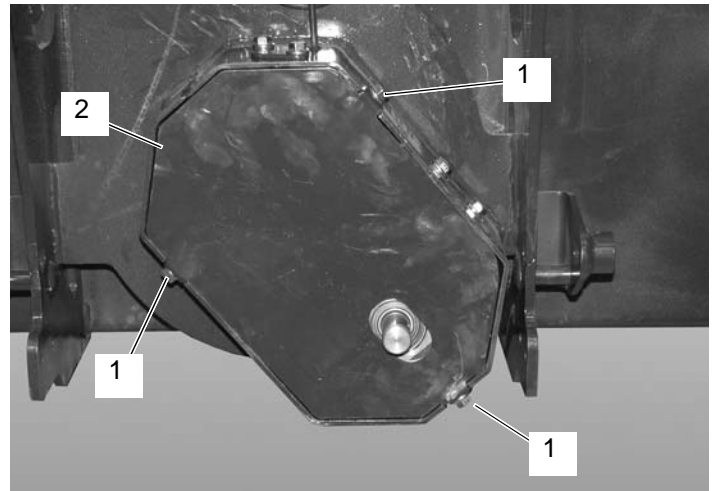
Tip: The snow blower has four skid shoes. The back two skid shoes are not adjustable.



Drive Chain Adjustment

Remove the three bolts (Item 1) and cover (Item 2).

Installation: Install the cover (Item 2). Install and tighten the three bolts (Item 1).



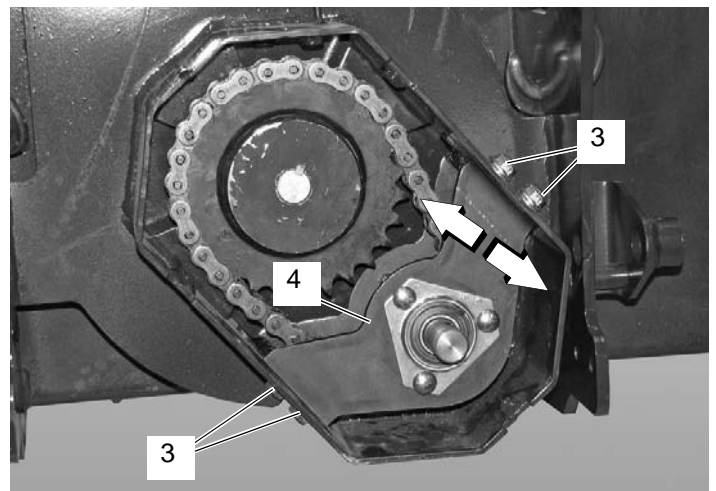
Loose the four bolts (Item 3). Slide the gear carriage (Item 4) until the chain is tight.

Installation: Tighten the four bolts (Item 3).

WARNING!

AVOID INJURY OR DEATH

Never operate with covers or guards removed.



Lubrication Locations

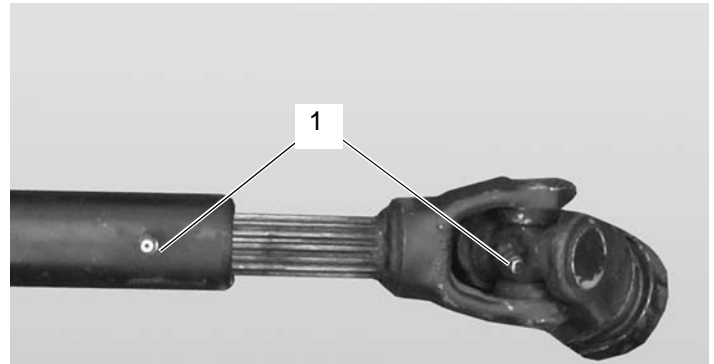
Lubricate as specified in the service schedule for the best performance of the snow blower. See page 37.

Always use a good quality lithium based multipurpose grease. Apply lubricant until extra grease shows.

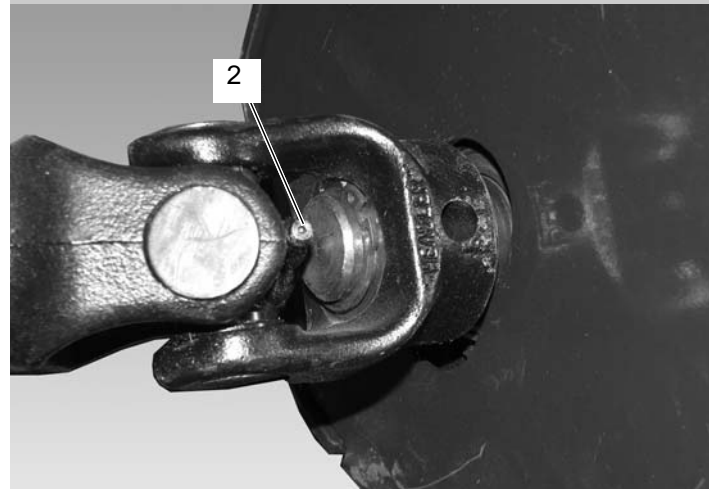
Lubricate the following:

PTO Driveline

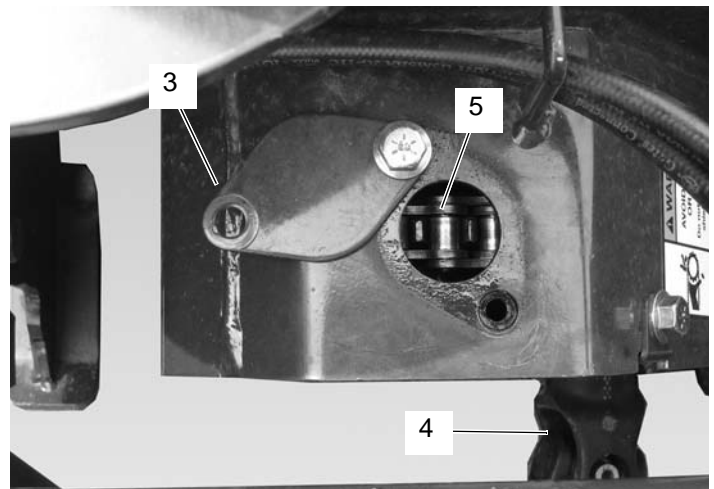
Utility Vehicle: Two locations (Items 1) on the PTO driveline.



Snow Blower: Universal joint (Item2) at the drive chain.



Remove one bolt from the access cover (Item 3). Turn the PTO driveline (Item 4) by hand. Spray chain lubricant onto the drive chain (Item 5) until the entire chain (Item 5) has been lubricated. Install the bolt in the access cover.



MAINTENANCE

Auger Gearbox Fluid Change

WARNING!

AVOID INJURY OR DEATH.

Wear safety glasses to prevent eye injury when any of the following conditions exist:

- When fluids are under pressure.
- Flying debris or loose material is present.
- Engine is running.
- Tools are being used.

Tip: Fluid such as engine oil, hydraulic fluid, coolants, grease, etc. must be disposed of in an environmentally safe manner. Some regulations require that certain spills and leaks on the ground must be cleaned in a specific manner. See local, state and federal regulations for the correct disposal.

Remove drain plug (Item 1) from the bottom side of the gearbox. Draining the fluid into an approved container and cleaning up any spills.

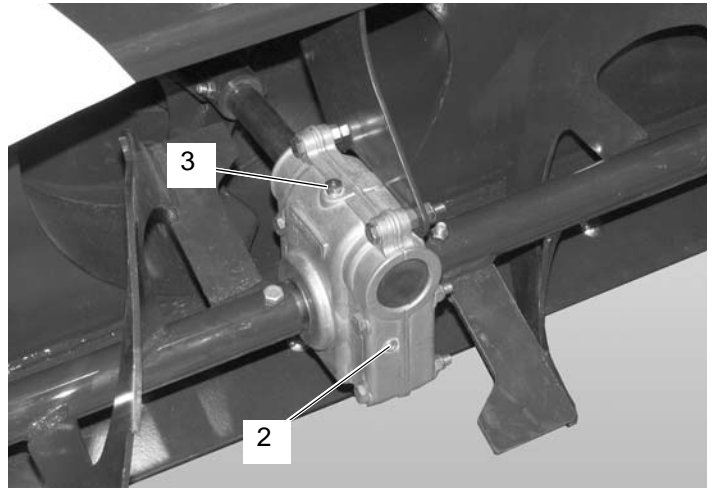
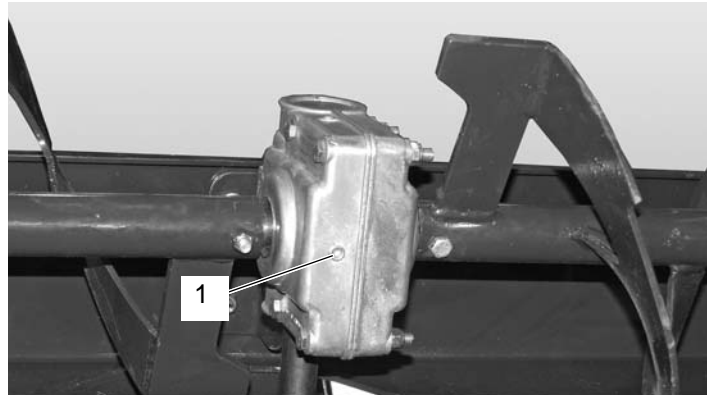
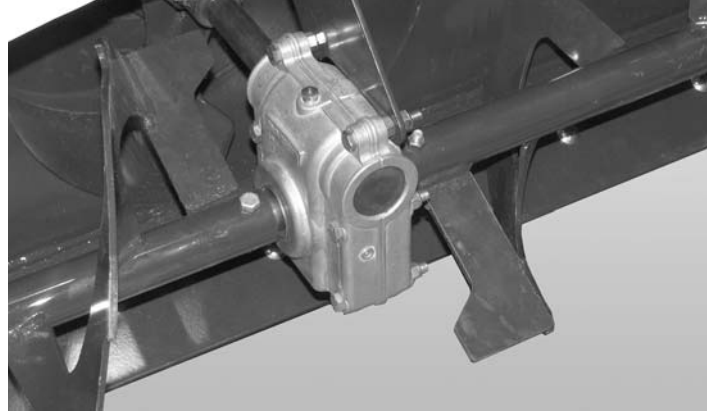
Install and tighten drain plug.

Remove the check plug (Item 2).

Remove the fill plug (Item 3).

Add oil (Polaris Premium Angle Drive Fluid) through the fill port (Item 3) until the oil begins to flow out of the check port (Item 2).

Install and tighten check plug (Item 2) and fill plug (Item 3).



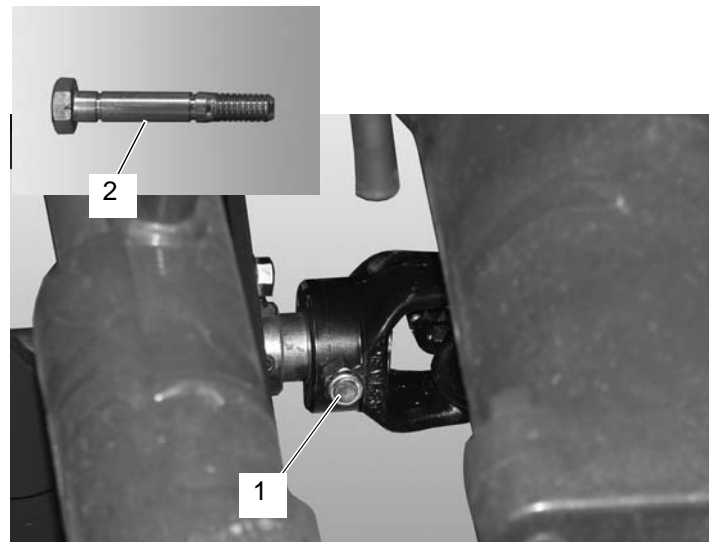
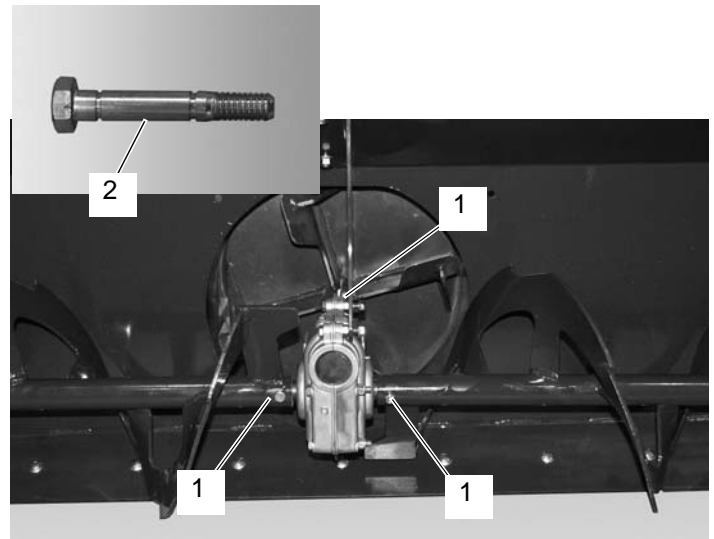
Removal and Installation of Shear Bolt

Remove any remaining portion of the old shear bolt (Item 1) from the shaft.

Tip: Use only shear bolts recommended by Polaris.

Tip: When replacing shear bolts for the auger, the auger paddles must be 180° from each other.

Installation: Realign holes, install the new shear bolt (Item 2) as needed, tighten bolts and nuts.



Removal And Installation Of Skid Shoe

WARNING!

AVOID INJURY OR DEATH

Wear safety glasses to prevent eye injury when any of the following conditions exist:

- When fluids are under pressure.
- Flying debris or loose material is present.
- Engine is running.
- Tools are being used.

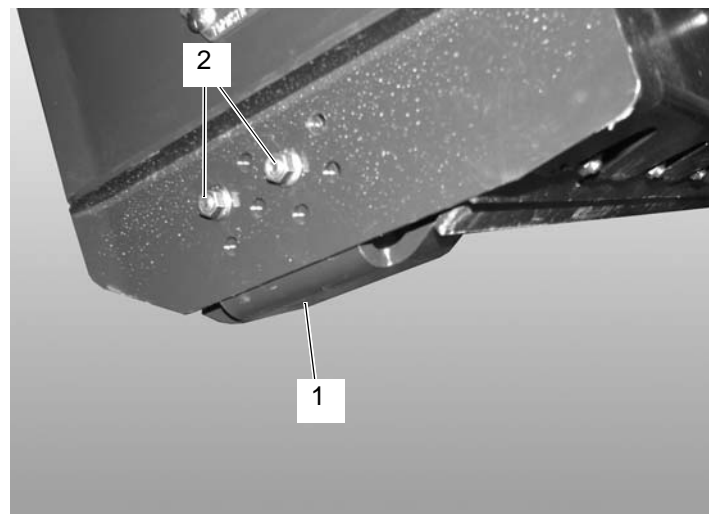
Slightly raise the snow blower and support the cutting edge with blocks.

Stop the engine and exit the machine. See page 16.

To remove skid shoe (Item 1), loosen and remove the bolts and nuts (Item 2) and remove the skid shoe.

Installation: Realign holes, install bolts (Item 2). Adjust skid shoe (Item 1) to the desired height. Tighten the bolt.

Tip: The back two skid shoes are not adjustable.



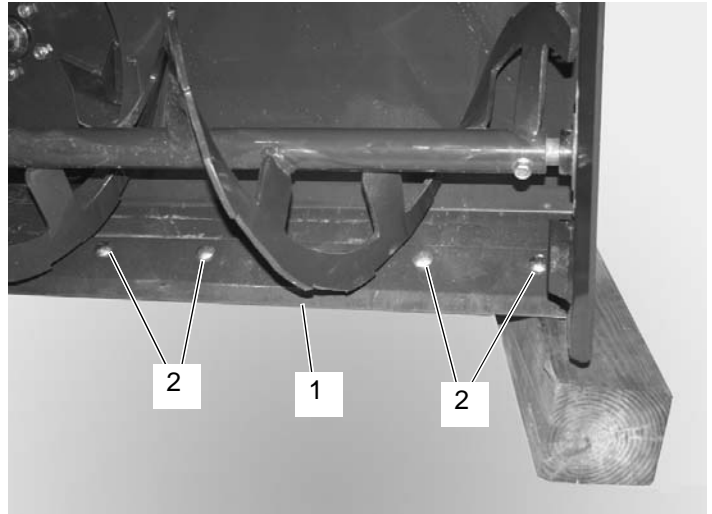
MAINTENANCE

Removal and Installation of the Cutting Edge

To replace cutting edge (Item 1), lift and block the snow blower to keep from falling. Remove the bolts and nuts (Item 2) and remove the cutting edge.

Tip: The cutting edge is reversible.

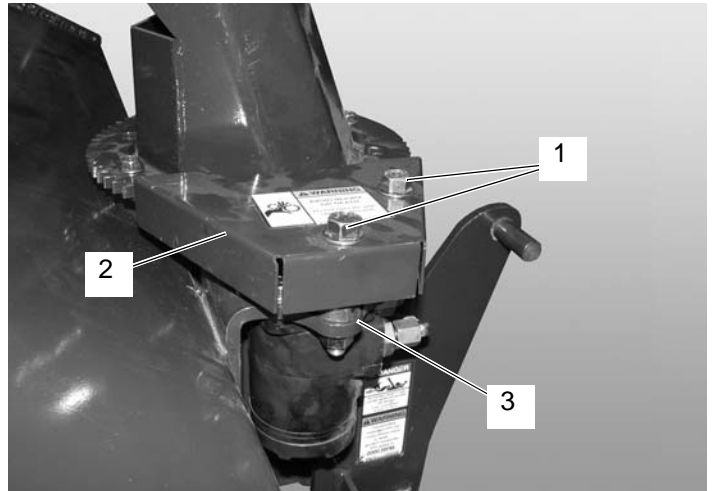
Installation: Tighten nuts to 65 - 70 ft-lb (88 - 95 Nm) torque.



Removal and Installation of the Chute Slide

Remove the two bolts and nuts (Item 1) and cover (Item 2).

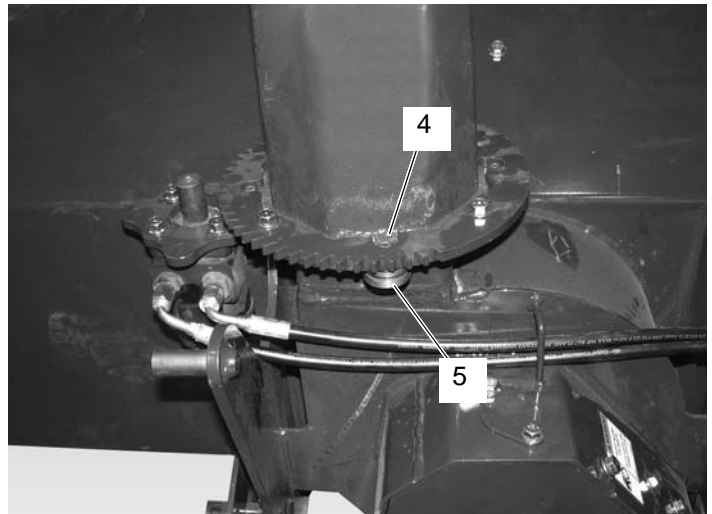
Installation: Install the two bolt standoffs (Item 3) and cover (Item 2). Tighten the two bolts and nuts (Item 1).



Remove the bolt (Item 4). Remove the chute slide (Item 5).

Installation: Install the chute slide (Item 5). Tighten the bolt (Item 1).

Tip: When tightening the bolt (Item 4) make sure the chute slide (Item 5) can rotate freely.



Attachment Storage

Sometimes it may be necessary to store your attachment for an extended period of time. Below is a list of items to perform before storage:

- Thoroughly clean and wash the attachment.
- Lubricate the attachment.
- Inspect the mounting frame, mounting pins and all welds on the attachment for wear and damage.
- Check for loose hardware, missing guards, or damaged parts.
- Replace worn or damaged parts.
- Check for damaged or missing decals. Replace if necessary.
- Place the attachment in a dry protected shelter.
- Place the attachment flat on the ground.

Tip: In muddy conditions or to prevent the attachment from freezing to the ground, put the attachment on planks or blocks before removing the attachment from the machine.

Return to Service

After the attachment has been in storage, it is necessary to follow a list of items to return the attachment to service:

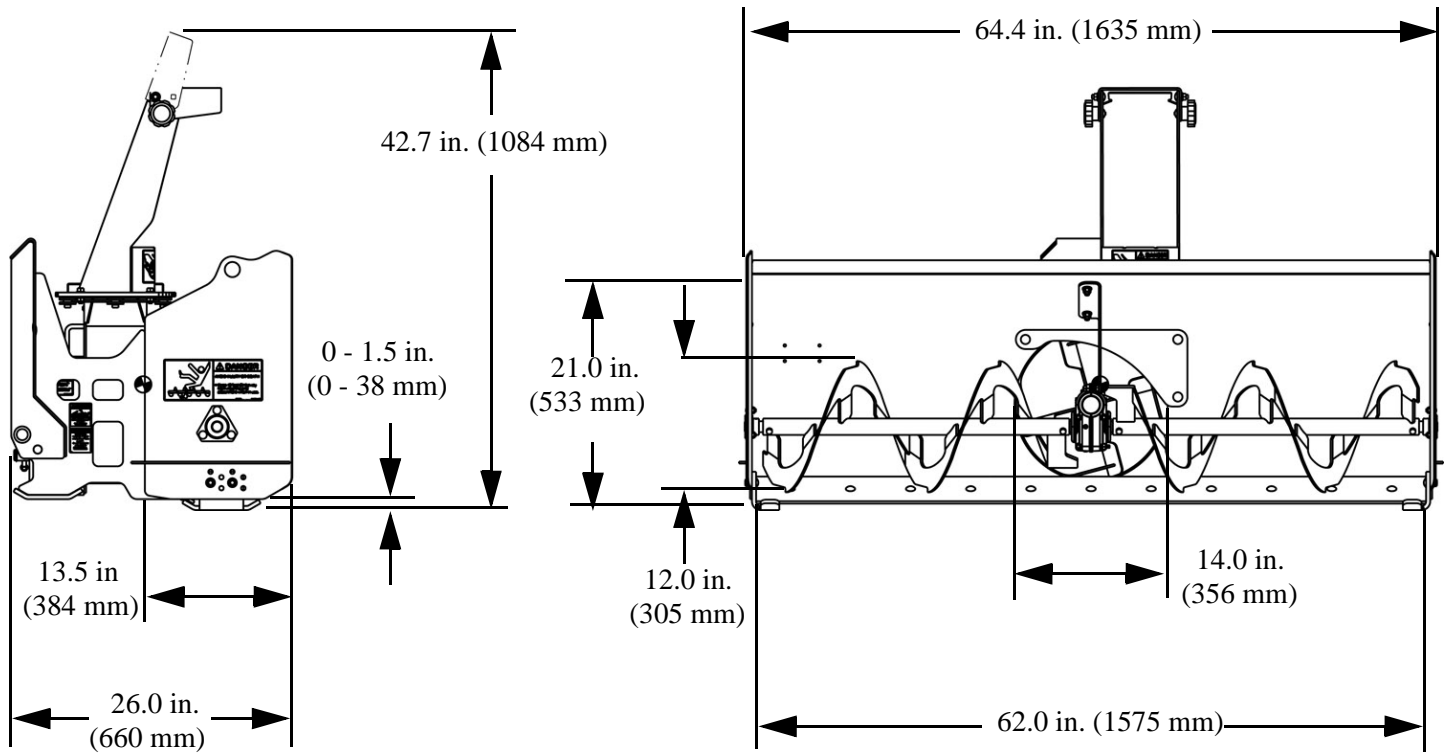
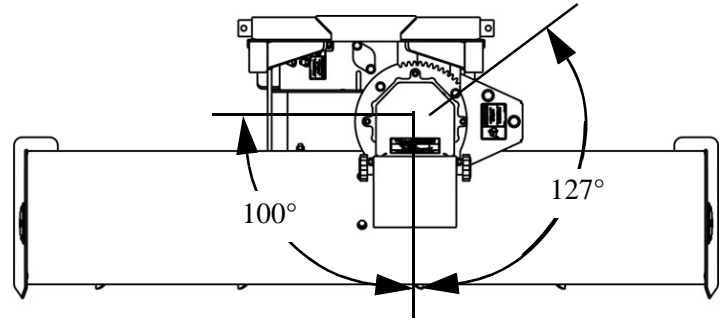
- Check for damaged or missing decals. Replace if necessary.
- Be sure all shields and guards are in place.
- Lubricate the attachment.
- Check for loose hardware, missing or damaged parts.
- Check for leaks. Repair as needed.
- Check oil level in the gearbox.
- Install and operate attachment, check for correct function.

POLARIS PRODUCTS

Part Number	Description
Grease / Specialized Lubricants	
2871312	Grease Gun Kit, Premium All Season
2871322	Premium All Season Grease (3 oz./89 ml cartridge)
2871423	Premium All Season Grease (14 oz./414 ml cartridge)
2871515	Premium U-Joint Lube (3 oz./89 ml cartridge)
2871551	Premium U-Joint Lube (14 oz./414 ml cartridge)
2871653	Premium Angle Drive Fluid (8 oz./237 ml)
2872267	Premium Angle Drive Fluid (2.5 gal./9.5 l)

Dimensions

- Where applicable, specifications conform to **SAE and ISO** standards and are subject to change without notice.



SPECIFICATIONS

Performance

Weight	404 lbs. (183 kg)
Main Drive	60H 0.750 Pitch Chain
Main Drive Reduction	2 : 1
Gear Box Ratio	5 : 1
Deflector Control	Manual Clamp Handle
Discharge Chute Control	Hydraulic
Cutting Edge	0.25 x 4.5 in (6,4 x 114,3 mm)
Skid Shoes	Adjustable / Replaceable

Capacities

Auger Gearbox	10.2 US. fl oz (0,3 l) of Polaris Premium Angle Drive Fluid
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POLARIS ATTACHMENT LIMITED WARRANTY

LIMITED WARRANTY

POLARIS Sales Inc., 2100 Highway 55, Medina, MN 55340 (POLARIS) gives a 12-month LIMITED WARRANTY for all components of your POLARIS Attachment against defects in material or workmanship. This warranty covers parts and labor charges for repair or replacement of defective parts and begins on the date of purchase. This warranty is limited to the original retail purchaser and is not transferable. The duration of this warranty may vary by international region based upon local laws and regulations.

WARRANTY COVERAGE LIMITATIONS AND EXCLUSIONS

This POLARIS limited warranty excludes any failures that are not caused by a defect in material or workmanship. **THIS WARRANTY DOES NOT COVER CLAIMS OF DEFECTIVE DESIGN.**

This warranty also does not cover: 1) acts of God, accidental damage, normal wear and tear, abuse or improper handling; 2) scheduled service and general wear items, consumable components, or any parts exposed to friction surfaces, stresses, environmental conditions and/or contamination for which they were not designed or not intended, including engine and hydraulic components and fluids; and 3) any component or part that has been altered structurally, modified, neglected, improperly maintained, or used for purposes other than for which it was designed.

This warranty excludes damages or failures resulting from improper attachment or installation; airflow obstructions; operator error or abuse; accidents; use of the attachment on any vehicle or equipment not approved by Polaris; failure to maintain or use the attachment as provided in the applicable instructions; or repairs made by an unauthorized repair center.

Mixing brands of hydraulic fluids or using non-recommended hydraulic fluids may cause damage to attachments. We recommend the use of POLARIS hydraulic fluids. Damage or failure resulting from the use of non-recommended lubricants or hydraulic fluids is not covered by this warranty.

The warranty provides no coverage for personal loss or expense, including mileage, transportation costs, hotels, meals, shipping or handling fees, product pick-up or delivery, replacement rentals, loss of product use, loss of profits, or loss of vacation or personal time.

THE EXCLUSIVE REMEDY FOR BREACH OF THIS WARRANTY SHALL BE, AT POLARIS' OPTION, REPAIR OR REPLACEMENT OF ANY DEFECTIVE MATERIALS, COMPONENTS, OR PRODUCTS. THE REMEDIES SET FORTH IN THIS WARRANTY ARE THE ONLY REMEDIES AVAILABLE TO ANY PERSON FOR BREACH OF THIS WARRANTY. POLARIS SHALL HAVE NO LIABILITY TO ANY PERSON FOR INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES OF ANY DESCRIPTION, WHETHER ARISING OUT OF EXPRESS OR IMPLIED WARRANTY OR ANY OTHER CONTRACT, NEGLIGENCE, OR OTHER TORT OR OTHERWISE. THIS EXCLUSION OF CONSEQUENTIAL, INCIDENTAL, AND SPECIAL DAMAGES IS INDEPENDENT FROM AND SHALL SURVIVE ANY FINDING THAT THE EXCLUSIVE REMEDY FAILED OF ITS ESSENTIAL PURPOSE.

THE IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS EXCLUDED FROM THIS LIMITED WARRANTY. ALL OTHER IMPLIED WARRANTIES (INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTY OF MERCHANTABILITY) ARE LIMITED IN DURATION TO THE ABOVE 12-MONTH WARRANTY PERIOD. POLARIS DISCLAIMS ALL EXPRESS WARRANTIES NOT STATED IN THIS WARRANTY. Some states do not permit the exclusion or limitation of incidental or consequential damages or allow limitations on the duration of implied warranties, so the above limitations may not apply to you if inconsistent with controlling state law.

Please work with your dealer to resolve any warranty issues. Should your dealer require any additional assistance they will contact the appropriate person at POLARIS. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. If any of the above terms are void because of federal, state, local law, all other warranty terms will remain in effect.

For questions call POLARIS Customer Assistance:

United States: 1-888-704-5290

Canada: 1-204-925-7100

A	
Adjusting Deflector	22
Adjusting Drive Chain	36
Adjusting the Skid Shoe	22, 36
Attachment Component Locations	11
Attachment Mounting Frame	14
Attachment Storage	41

C	
Capacity	44
Chain Adjustment	36
Changing Gearbox Fluid	38
Cleaning Discharge Chute	27
Cleaning Snow Blower	35
Component Locations	11
Controls	21
Controls, Float	21
Couplers	20

D	
Deflector Adjustment	22
Disconnecting Couplers	20

E	
Engaging PTO	24
Entering	16
Entering and Exiting	16
Equipment Modifications	9
Exiting	16

F	
Fastening BRUTUS and Attachment on Trailer	31
Float	21
Fluid Capacity	44

G	
Gearbox Fluid Change	38
Grease Points	37
Greasing The Attachment	37

H	
Hydraulic Quick Couplers	20

I	
Installing Chute Slide	40
Installing Couplers	20
Installing Cutting Edge	40
Installing Skid Shoe	39
Installing the PTO	19
Installing the Snow blower	17
Introduction	4

L	
Leveling The Snow Blower	18
Lifting The Attachment	30
Loading Onto Trailer	31
Lowering the Attachment	21
Lubrication	37

M	
Maintenance Log	46
Modifications to Vehicle	9
Mounting Frame	13

O	
Operator Safety	8, 9

P	
Performance	44
Power Take-Off	19
Protective Eyewear	9
PTO	19
PTO Controls	24
PTO Driveline	13

R	
Raising the Attachment	21
Removing Chute Slide	40
Removing Cutting Edge	40
Removing the PTO	19
Removing The Snow Blower	28
Replacing Skid Shoe	39
Return To Service	41

S	
Safety Labels	6, 7
Safety Symbols	4
Safety Warnings	8, 9
Seat Belt	9, 16
Signal Words	4
Skid Shoe Adjustment	22, 36
Skid Shoe Replacement	39
Snow Blower Dimensions	43
Snow blower Mounting Frame	13
Snow Blower Removal	28
Snow Blower Specifications	44
Snow Blower Storage	41
Standard Items	12
Storage	41
Storing the Attachment	41

V	
Vehicle Identification Number	5

W	
Warnings	4
Warranty	45
Weight of Snow Blower	44
Welcome	1
Width of Snow Blower	43

WARNING

Improper vehicle use can result in SEVERE INJURY or DEATH

NEVER Operate:

- At speeds too fast for your skills or the conditions.
- After or while using Alcohol or Drugs.
- On hills steeper than 15 degrees $\leq 15^\circ$
- On public roads, a collision can occur with another vehicle.
- With passengers under age twelve or who cannot comfortably reach the floor and hand holds.
- With unapproved accessories - they may seriously affect stability.

ALWAYS:

- Wear your seat belt. Vehicle rollover could cause severe injury or death.
- Wear eye protection and keep hands and feet in vehicle at all times.
- Reduce speed and use extra caution when carrying passengers.
- Avoid sharp turns or turns while applying heavy throttle.
- Operate slowly in reverse - avoid sharp turns or sudden braking.
- Make sure passenger reads and understands all safety signs.
- Watch for branches or other hazards that could enter vehicle.

READ OWNER'S MANUAL.

FOLLOW ALL INSTRUCTIONS AND WARNINGS.



For your nearest Polaris dealer,
call 1-800-POLARIS (765-2747)
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