PALADIN

OPERATOR'S MANUAL

SNOW BLOWER

250 Series

for Skid Steer Loaders

SERIAL NUMBER: _____

MODEL NUMBER: _____

Manual Number: 51-4785
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800-456-7100 // www.paladinattachments.com // 2800 N. Zeeb Rd., Dexter, MI. 48130, United States of America //

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Preface

General Comments

Congratulations on the purchase of your new product! This product was carefully designed and manufactured to give you many years of dependable service. Only minor maintenance (such as cleaning and lubricating) is required to keep it in top working condition. Be sure to observe all maintenance procedures and safety precautions in this manual and on any safety decals located on the product and on any equipment on which the attachment is mounted.

This manual has been designed to help you do a better, safer job. Read this manual carefully and become familiar with its contents.

⚠ WARNING!

Never let anyone operate this unit without reading the "Safety Precautions" and "Operating Instructions" sections of this manual.

Always choose hard, level ground to park the vehicle on and set the brake so the unit cannot roll.

Unless noted otherwise, right and left sides are determined from the operator's control position when facing forward.

IMPORTANT

The illustrations and data used in this manual were current (according to the information available to us) at the time of printing, however, we reserve the right to redesign and change the attachment as may be necessary without notification.

Before Operation

The primary responsibility for safety with this equipment falls to the operator. Make sure the equipment is operated only by trained individuals that have read and understand this manual. If there is any portion of this manual or function you do not understand, contact your local authorized dealer or the manufacturer to obtain further assistance. Keep this manual available for reference. Provide the manual to any new owners and/or operators.

Safety Alert Symbol

This is the "Safety Alert Symbol" used by this industry. This symbol is used to warn of possible injury. Be sure to read all warnings carefully. They are included for your safety and for the safety of others working with you.

Service

Use only manufacturer replacement parts. Substitute parts may not meet the required standards.

Record the model and serial number of your unit on the cover of this manual. The parts department needs this information to insure that you receive the correct parts.

Sound And Vibration

Sound pressure levels and vibration data for this attachment are influenced by many different parameters: some items are listed below (not inclusive):

- prime mover type, age, condition, with or without cab enclosure and configuration
- operator training, behavior, stress level
- job site organization, working material condition, environment

Based on the uncertainty of the prime mover, operator, and job site, it is not possible to get precise machine and operator sound pressure levels or vibration levels for this attachment.

NOTE

A list of all Paladin Patents can be found at http://www.paladinattachments.com/patents.asp.

Safety Statements

	THIS SYMBOL BY ITSELF OR WITH A WARNING WORD THROUGHOUT THIS MANUAL IS USED TO CALL YOUR ATTENTION TO INSTRUCTIONS INVOLVING YOUR PERSONAL SAFETY OR THE SAFETY OF OTHERS. FAILURE TO FOLLOW THESE INSTRUCTIONS CAN RESULT IN INJURY OR DEATH.
DANGER!	INDICATES A HAZARDOUS SITUATION WHICH, IF NOT AVOIDED, WILL RESULT IN DEATH OR SERIOUS INJURY
WARNING!	INDICATES A HAZARDOUS SITUATION WHICH, IF NOT AVOIDED, COULD RESULT IN DEATH OR SERIOUS INJURY
CAUTION!	INDICATES A HAZARDOUS SITUATION WHICH, IF NOT AVOIDED, COULD RESULT IN MINOR OR MODERATE INJURY
NOTICE	NOTICE IS USED TO ADDRESS PRACTICES NOT RELATED TO PHYSICAL INJURY.

General Safety Precautions

WARNING!

READ AND UNDERSTAND MANUAL

- Read and understand this manual and other safety information provided with this equipment and base machine (prime mover) and be sure all controls and instructions are understood before attempting to install, operate or maintain this equipment.
- Read and follow all safety warnings and instructions.
- Do not discard safety instructions. Give to the operator.
- Improper installation, operation or maintenance of this equipment could result in serious injury, death or property damage.

READ AND UNDERSTAND ALL SAFETY STATEMENTS

- Read all safety statements in this manual and on your equipment safety decals.
- Keep safety decals in good condition. Replace missing or damaged safety decals.
- Because the manufacturer cannot foresee all hazardous circumstances, the precautions listed in this manual and on the equipment are not all-inclusive. If a procedure, method, tool or part is not specifically recommended by the manufacturer, determine whether it is safe for you and others, and that the equipment will not be damaged or made unsafe as a result of your decision to implement it.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

- **Always wear personal protective equipment (PPE) appropriate for the job, such as eye protection, ear protection, gloves, head protection, breathing protection and safety shoes. PPE should be worn at all times when operating, maintaining or observing the tool.**
- **Use PPE that conforms to standards ANSI Z87.1 (Eye and Face Protection), ANSI Z89.1 (Head Protection), ANSI Z41.1 (Foot Protection) and ANSI S12.6 (S3.19) (Hearing Protection).**

M003
Wear Ear Protection

M004
Wear Eye Protection

M016
Wear a Mask

- **Do not wear loose fitting clothing, jewelry, long hair or gloves with cut or frayed fingers. These items can become entangled in the equipment causing hazards such as choking, scalping, lacerations, severed or broken appendages.**

KNOW YOUR EQUIPMENT

- **Know your equipment's capabilities, dimensions, and controls before operating.**
- **Do not operate a damaged, improperly adjusted, modified or incompletely assembled tool.**
- **Make sure all safety guards and devices are installed.**
- **Check all hardware to ensure it is tight.**
- **Make certain that all locking pins, latches, and connection devices are properly installed and secured.**
- **Remove and replace any damaged, fatigued, or excessively worn parts.**
- **Inspect the tool before each use and ensure all safety decals are in place and legible. Contact manufacturer if replacement decals are needed.**
- **Know and follow good work practices when assembling, maintaining, repairing, mounting, removing or operating this equipment.**

SAFELY OPERATE EQUIPMENT

- **Establish a training program for all operators to ensure safe operation.**
- **Do not operate the tool unless thoroughly trained or under the supervision of a qualified operator or instructor.**
- **Know and obey all OSHA regulations, local laws, and other professional guidelines for your operation.**
- **Know your work site safety rules. When in doubt on any safety issue, contact your supervisor or safety coordinator.**
- **Assess hazards to yourself and others around you before operating the tool. Start in a work area without bystanders. A hazard to bystanders can include, but is not limited to, the risk of serious injury or death caused by the tool or accessories being dropped from an elevated height. Keep children out of the work area.**
- **Do not operate the equipment from anywhere other than the correct operator's position.**
- **Do not alter or remove any safety feature from the prime mover or tool.**
- **Stay alert, watch what you are doing and use common sense when operating the tool. Do not operate the tool if you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating the tool may result in serious**

General Safety Precautions

injury.

CALIFORNIA PROPOSITION 65 WARNING

- This product may contain a chemical known to the State of California to cause cancer, or birth defects or other reproductive harm. www.P65Warnings.ca.gov

DUST AND FUMES

- WARNING: Dust created by power sanding, sawing, grinding, drilling, and other job site activities may contain chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

  - Lead from lead-based paints
  - Crystalline silica from quartz, bricks, cement and other masonry products
  - Arsenic and chromium from chemically-treated lumber

- To reduce your exposure to these chemicals: work in a well ventilated area and work with approved safety equipment, such as dust masks that are specially designed to filter out microscopic particles. Protect yourself and those around you.
- Research and understand materials you are working with.
- Follow correct safety procedures and comply with all applicable national, state or provisional health and safety regulations relating to them, including, if appropriate, arranging for the safe disposal of the materials by a qualified person.
- Use dust suppression or dust collection methods when using a tool that may cause high levels of dust.

  - Control dust or fumes at the point of emission.
  - Direct tool exhaust to minimize disturbance of dust.
  - Operate and maintain the tool as recommended in this manual to minimize dust.
  - Use respiratory protection in accordance with employers instruction or as required by occupational health and safety regulations.
  - Avoid prolonged contact with dust. Allowing dust to get into your mouth, eyes or on the skin may promote absorption of harmful chemicals.

SAFELY MAINTAIN AND REPAIR EQUIPMENT

- Work in a clean and dry area.
- Keep the work area well lit.
- Work on a level surface.
- Use properly grounded electrical outlets and tools.
- Use the correct tools for the job at hand.
- Ensure tools are working properly and safely by performing preventative maintenance procedures.
- Wear protective equipment specified by the tool manufacturer.
- Do not perform any work on the tool unless you are authorized and qualified to do so. Always read the operator service manuals before any repair is made.

General Safety Precautions

- After completing maintenance or repair, remove all maintenance tools and unused parts from equipment.
- Check for correct operation of the tool. If not operating properly, shut down the prime mover, follow proper Lock-Out / Tag-Out procedures and tag "DO NOT OPERATE" until all problems are corrected.

USE CARE WITH HYDRAULIC FLUID PRESSURE

- DO NOT attempt to make repairs to hydraulic lines or components while the system is pressurized. Hydraulic fluid under pressure can penetrate the skin and cause serious injury or death. Follow proper procedures for relieving pressure from hydraulic system before connecting of disconnecting hydraulic lines or components.

- Wear personal protective equipment (PPE) such as safety glasses, gloves and protective clothing at all times.
- Hydraulic leaks under pressure may not be easily visible. Keep hands and other body parts away from a suspected leak. Flesh injected with hydraulic fluid may develop gangrene or other permanent disabilities. Use a piece of cardboard or wood when searching for hydraulic leaks.
- If injured by injected fluid, seek immediate medical attention.
- Hydraulic fluid can become hot during operation. DO NOT come in contact with hot hydraulic fluid as it could cause severe burns.
- If exposed to hydraulic fluid, wash hands immediately.
- Inspect and clean couplers before use. Replace damaged couplers immediately.
- Ensure the couplers are properly connected and are tight.
- Do not smoke while working on the hydraulic system.

DO NOT MISUSE OR MODIFY EQUIPMENT

- Use and maintain the tool as stated in this manual. Misuse of the tool can cause serious injury.
- Do not modify the tool in any way. Modifications may weaken its integrity and may impair its function, safety, life and performance. When making repairs use only factory recommended replacement parts, following authorized instructions. Use of parts that are not factory approved may be substandard in fit and quality and may cause damage and void the warranty.
- Do not modify any ROPS (Roll Over Protective Structure) or FOPS (Falling Object Protective Structure) equipment or device. Any modifications must be authorized in writing by the manufacturer.

END OF LIFE DISPOSAL

- At the completion of the useful life of the unit, drain all fluids and dismantle by separating the different materials (rubber, steel, plastic, etc.). Follow all federal, state and local regulations for recycling and disposal of the fluid and components.

Equipment Safety Precautions

⚠ WARNING!

EXPOSURE TO RESPIRABLE CRYSTALLINE SILICA DUST ALONG WITH OTHER HAZARDOUS DUSTS MAY CAUSE SERIOUS OR FATAL RESPIRATORY DISEASE.

Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- **Lead from lead-based paints,**
- **crystalline silica from bricks and cement and other masonry products, and**
- **arsenic and chromium from chemically-treated lumber.**

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles. Protect yourself and those around you. Research and understand the materials you are drilling. Follow correct safety procedures and comply with all applicable national, state or provisional health and safety regulations relating to them, including, if appropriate arranging for the safe disposal of the materials by a qualified person.

- **When dust or fumes are created, control them at the point of emission. Direct tool exhaust to minimize disturbance of dust.**
- **Operate and maintain the tool as recommended in this manual to minimize dust.**
- **Use respiratory protection in accordance with employers instruction or as required by occupational health and safety regulations.**
- **Avoid prolonged contact with dust. Allowing dust to get into your mouth, eyes or lay on the skin may promote absorption of harmful chemicals.**

⚠ WARNING!

REMOVE PAINT BEFORE WELDING OR HEATING

Hazardous fumes/dust can be generated when paint is heated by welding, soldering or using a torch. Do all work outside or in a well ventilated area and dispose of paint and solvent properly. Remove paint before welding or heating.

When sanding or grinding paint, avoid breathing the dust. Wear an approved respirator. If you use solvent or paint stripper, remove stripper with soap and water before welding. Remove solvent or paint stripper containers and other flammable material from area. Allow fumes to disperse at least 15 minutes before welding or heating.

PROTECT AGAINST FLYING DEBRIS

Always wear proper safety glasses, goggles, or a face shield when driving pins in or out, or when any operation causes dust, flying debris, or any other hazardous material.

LOWER OR SUPPORT RAISED EQUIPMENT

Do not work under raised booms without supporting them. Do not use support material made of concrete blocks, logs, buckets, barrels, or any other material that could suddenly collapse or shift positions. Make sure support material is solid, not decayed, warped, twisted, or tapered. Lower booms to ground level or on blocks. Lower booms and attachments to the ground before leaving the cab or operator's station.

OPERATING THE ATTACHMENT

- **Keep bystanders clear of discharge area during operation. Flying debris can cause severe injury or death.**
- **Do not direct discharge towards people, livestock or where property damage can occur. Keep children and others away from discharge area.**
- **Do not reach into the auger area or chute until the prime mover engine is turned off, the hydraulic pressure relieved, and key is removed.**
- **Do not reach into or force objects into the chute.**
- **Use extreme caution when operating on or crossing gravel drives, walkways or roads.**
- **Do not operate without good visibility or light.**
- **Do not overload machine capacity by attempting to clear snow too fast. Do not exceed the lifting capacity of your prime mover.**
- **Operate only from the operator's station.**
- **When operating on slopes, drive up and down, not across. Avoid steep hillside operation, which could cause the prime mover to overturn.**
- **Reduce speed when driving over rough terrain, on a slope, or turning, to avoid overturning the vehicle.**
- **Before exiting the prime mover, lower the attachment to the ground, apply the brakes, turn off the prime mover's engine and remove the key.**
- **When entering and exiting the prime mover be careful not to become entangled with the hydraulic lines and control cables.**

Equipment Safety Precautions

⚠ WARNING!

TRANSPORTING THE ATTACHMENT

- Travel only with the attachment in a safe transport position to prevent uncontrolled movement. Drive slowly over rough ground and on slopes.
- When transporting on a trailer: Secure attachment at recommended tie down locations using tie down accessories that are capable of maintaining attachment stability.
- When driving on public roads use safety lights, reflectors, Slow Moving Vehicle signs etc., to prevent accidents. Check local government regulations that may affect you.
- Do not drive close to ditches, excavations, etc., cave in could result.

MAINTAINING THE ATTACHMENT

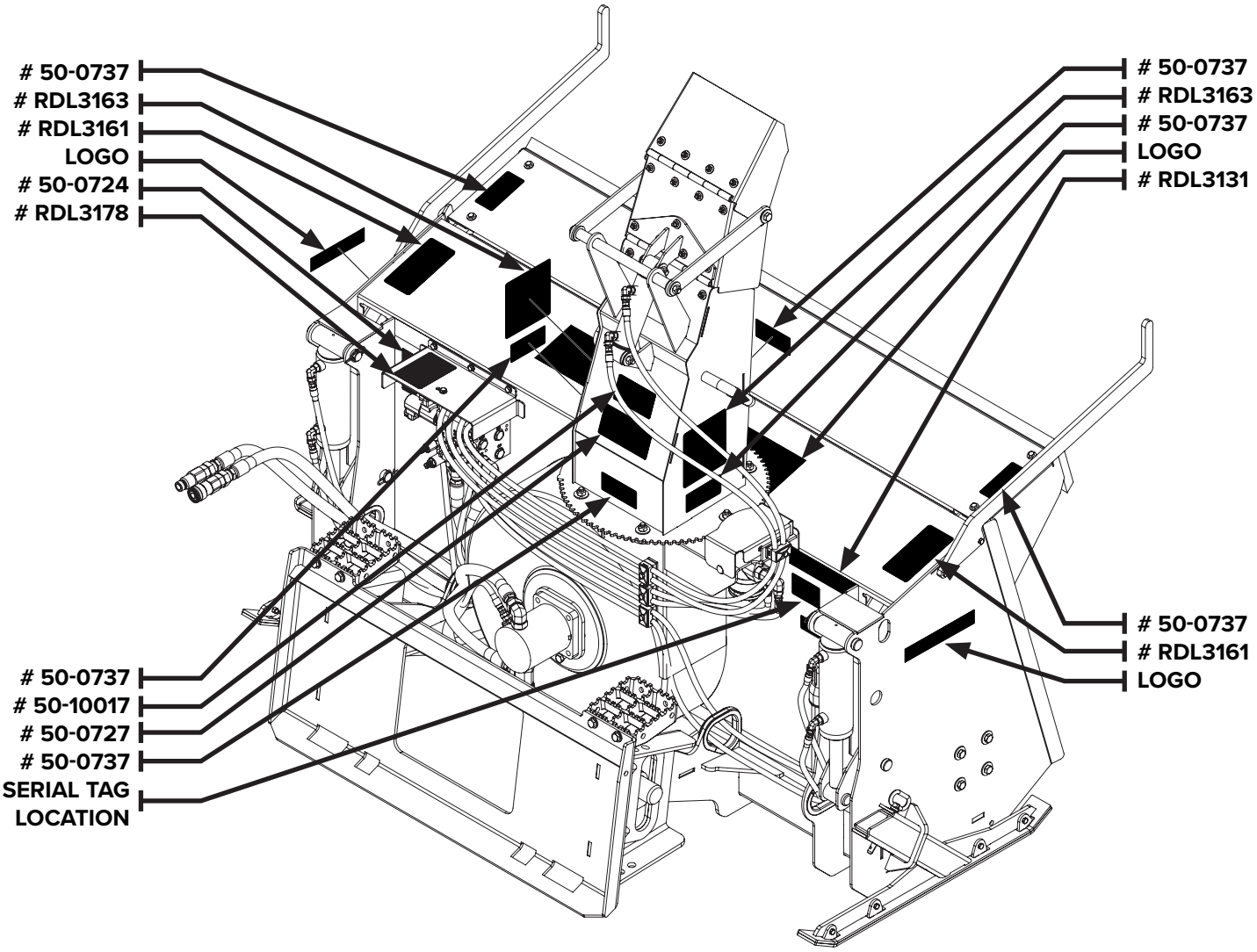
- Before performing maintenance lower the attachment to the ground, apply the brakes, turn off the engine and remove the key.
- Do not perform any work on the attachment unless you are authorized and qualified to do so. Always read the operator service manuals before any repair is made. After completing maintenance or repair, check for correct functioning of the attachment. If not functioning properly, shut down the machine, follow proper Lock-Out / Tag-Out procedures and tag “DO NOT OPERATE” until all problems are corrected.
- Worn, damaged, or illegible safety decals must be replaced. New safety decals can be ordered from Paladin.
- Do not make hydraulic repairs while the system is under pressure. Serious personal injury or death could result.
- Do not work under a raised attachment or backdrag.
- Stop the prime mover engine and cycle control levers to release hydraulic pressure before servicing or adjusting attachment hydraulic systems.

Decals

Decal Placement

GENERAL INFORMATION

The diagrams on this page show the location of the decals used on your attachment. The decals are identified by their part numbers, with reductions of the actual decals located on the following page. Use this information to order replacements for lost or damaged decals. Be sure to read all decals before operating the attachment. They contain information you need to know for both safety and product longevity.



IMPORTANT

Keep all safety decals clean and legible. Replace all missing, illegible, or damaged safety decals. When replacing parts with safety decals attached, the safety decals must also be replaced. Safety decals are available, free of charge, from your local dealer or Paladin.

REPLACING SAFETY DECALS: Clean the area of application with nonflammable solvent, then wash the same area with soap and water. Allow the surface to fully dry. Remove the backing from the safety decal, exposing the adhesive surface. Apply the safety decal to the position shown in the diagram above and smooth out any bubbles.

Decals

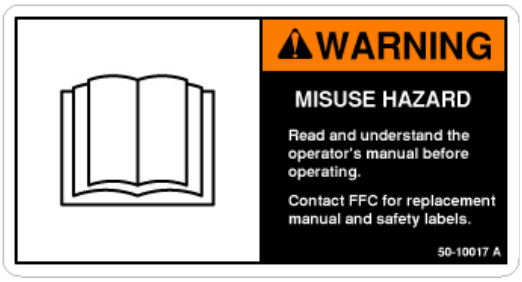
Decal Placement

DANGER!

 # RDL3163 - ROTATING FAN

WARNING!

 # 50-0727 - FLYING OBJECTS



WARNING!

 # 50-10017 - READ MANUAL

WARNING!

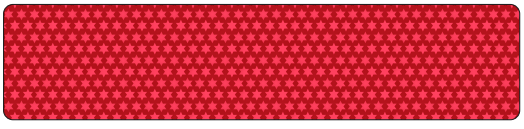
 # 50-0724 - HIGH PRESSURE FLUID

CAUTION!

 # RDL3178 - NOT A STEP

DANGER!

 # RDL3161 - ROTATING AUGER



 # RDL3131 - REFLECTIVE TAPE - RED

WARNING!

 # 50-0737 - PINCH POINT

NOTE

Contact your local dealer for model number and logo decals

PALADIN

Installation

GENERAL INFORMATION

The following instructions will help you to mount your Snow Blower onto your prime mover. The attachment uses the quick-attach system for ease of installation. Therefore, if you know how to attach your loader bucket, attaching the attachment should prove no problem.

Remember to read all safety warnings, decals and operating instructions before operating the attachment. If there is any portion of this manual that you do not understand, contact your dealer.

⚠ WARNING!

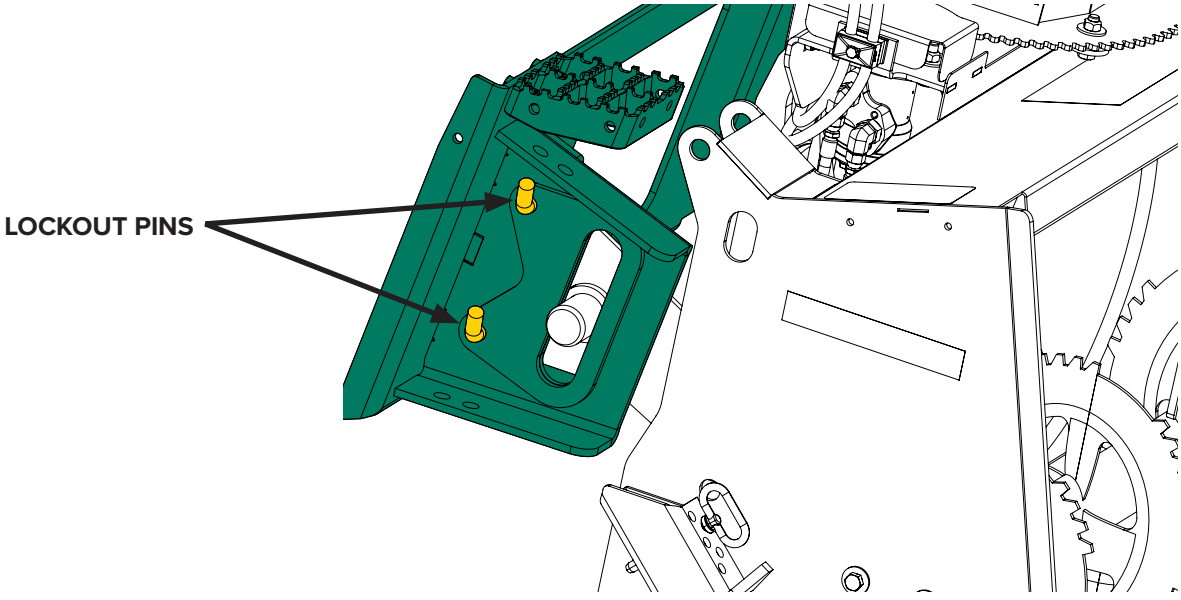
READ MANUAL PRIOR TO INSTALLATION

Improper installation, operation, or maintenance of this equipment could result in serious injury or death. Operators and maintenance personnel should read this manual, as well as all manuals related to this equipment and the prime mover thoroughly before beginning installation, operation, or maintenance.

FOLLOW ALL SAFETY INSTRUCTIONS IN THIS MANUAL AND THE PRIME MOVER'S MANUAL(S).

SET-UP INSTRUCTIONS

The 250 Series Snow Blowers are shipped assembled. The only adjustment needed is to remove the 3D floating hitch lockout pins. Refer to Bolt Torque Specifications for all hardware unless otherwise noted. Select a suitable work area with a mechanical lifting device to assist in uncrating the attachment. Front, back, left, and right are determined by sitting in the prime mover operator's seat facing forward.



NOTE

Relieve tension on the floating mount for ease of adding or removing lockout pins. Removal of the attachment from the prime mover is recommended.

INSTALLATION

NOTICE!

Lubricate all grease fittings before connecting this product to your prime mover's hydraulic system. Refer to Lubrication and follow the instructions.

1. Remove any attachment from the front of the prime mover.

⚠ WARNING!

To avoid serious personal injury, make sure the attachment is securely latched to the attachment mechanism of your unit. Failure to do so could result in separation of the attachment from the prime mover.

2. Following all standard safety practices and the instructions for installing an attachment in your prime mover operator's manual, install the attachment onto your prime mover.
3. Lower the unit to the ground and relieve pressure to the auxiliary hydraulic lines.
4. Following the safety shut down procedure for your prime mover, shut down and exit the prime mover.
5. After making sure that the hydraulic couplers are free from any foreign material or contaminants, connect the couplers to the auxiliary hydraulic system of your prime mover.
6. Following the standard start up procedure for your prime mover, start the prime mover and run all cylinders on the attachment to purge any air from the system. Check for proper hydraulic connection, hose routing and hose length.

⚠ WARNING!

Do not lock the auxiliary hydraulics of your prime mover in the "ON" position. Failure to obey this warning could result in death or serious injury.

7. Attachment installation is complete, proceed to Control System Installation.

CONTROL SYSTEM INSTALLATION

Prime mover in cab multi-function controls:

Connect the electrical wire harness from the snow blower to the auxiliary electrical connector on the front of the prime mover.

If using the Paladin electrical control box:

1. Attach the control box to a location convenient for the operator to control the attachment without hindering operation of the prime mover. Use the magnet on the back of the control box to secure the control box with the toggle switches on top.

⚠ CAUTION!

Failure to obey the following procedures may result in personal injury. To avoid electric shock during the wiring harness installation, remove the ground cable from the battery of your prime mover.

⚠ WARNING!

When working around batteries, remember that all of the exposed metal parts are "live". Never lay a metal object across the terminals because a spark or short circuit may result.

⚠ DANGER!

BATTERY ACID CAUSES SEVERE BURNS. Batteries contain sulfuric acid. Avoid contact with skin, eyes or clothing.

Antidote: EXTERNAL - flush with water. INTERNAL - drink large quantities of water or milk. Follow with milk of magnesia, beaten eggs or vegetable oil. Call physician immediately. EYES - flush with water for 15 minutes and get prompt medical attention.

2. Disconnect the positive & negative cables from the prime mover's battery.
3. Remove the nut from the positive cable clamp and slide the red (positive) wire ring terminal from the wiring harness over the cable clamp bolt. Secure the ring terminal with the nut.
4. Remove the nut from the negative cable clamp and slide the black (negative) wire ring terminal from the wiring harness over the cable clamp bolt.
5. Route & secure the wiring harness from the control box to the battery with nylon cable ties.

NOTICE!

Route wires away from hot and/or moving parts to avoid wire damage.

6. Verify wiring is correct and reconnect the battery.
7. Feed the wiring harness cable from the control box to the rear of the prime mover, past the load arm's hinge point by following the hydraulic hoses where possible.
8. Continue routing down the loader arm, following the hydraulic hoses.
9. Secure the male connector to the hydraulic lines next to the quick couplers.
10. Straighten the cable and secure it to the hydraulic lines using nylon cable ties, working towards the rear.
11. Secure the cable to the prime mover below the hinge point and back to the control box.

NOTICE!

Ensure there is sufficient slack in the cable to allow for a full range of motion of the loader arms.

12. Connect the female electrical connector from the attachment to the male connector on the prime mover.

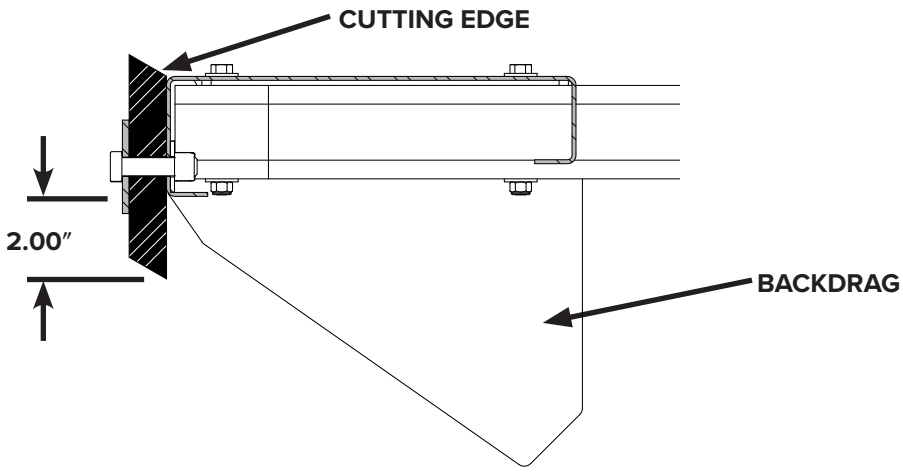
Installation

OPTIONAL BACKDRAG INSTALLATION

Backdrag Assembly

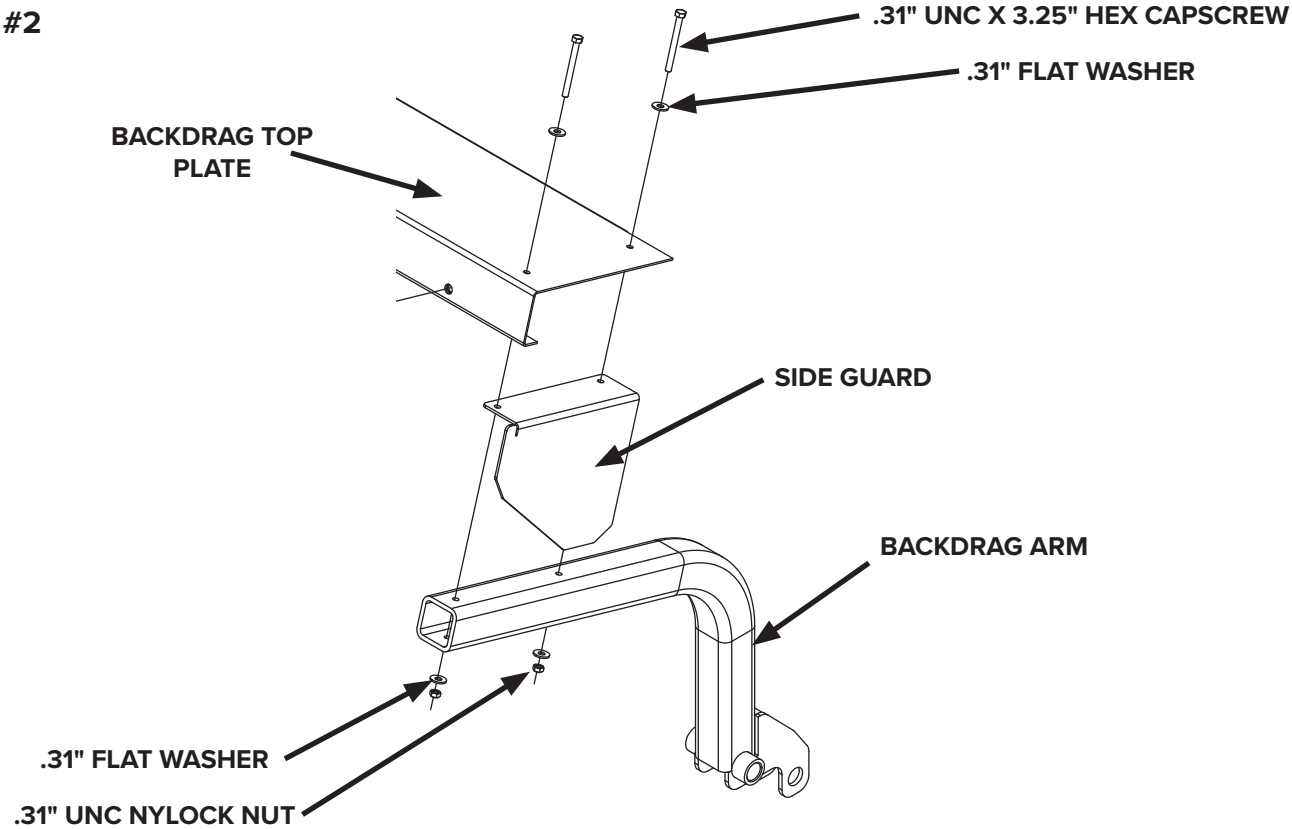
1. Bolt the cutting edge to the backdrag top plate. Refer to Backdrag Rubber Edge Installation for detailed instructions on installing rubber edges. Steel & polypropylene edges are directly bolted to the top plate. See Figure #1

FIGURE #1



2. Place the side guards on top of the backdrag arms and align the holes.
3. Bolt the side guards & arms to the backdrag top plate using bolts, washers, and nuts provided. See Figure #2

FIGURE #2



Attaching The Backdrag

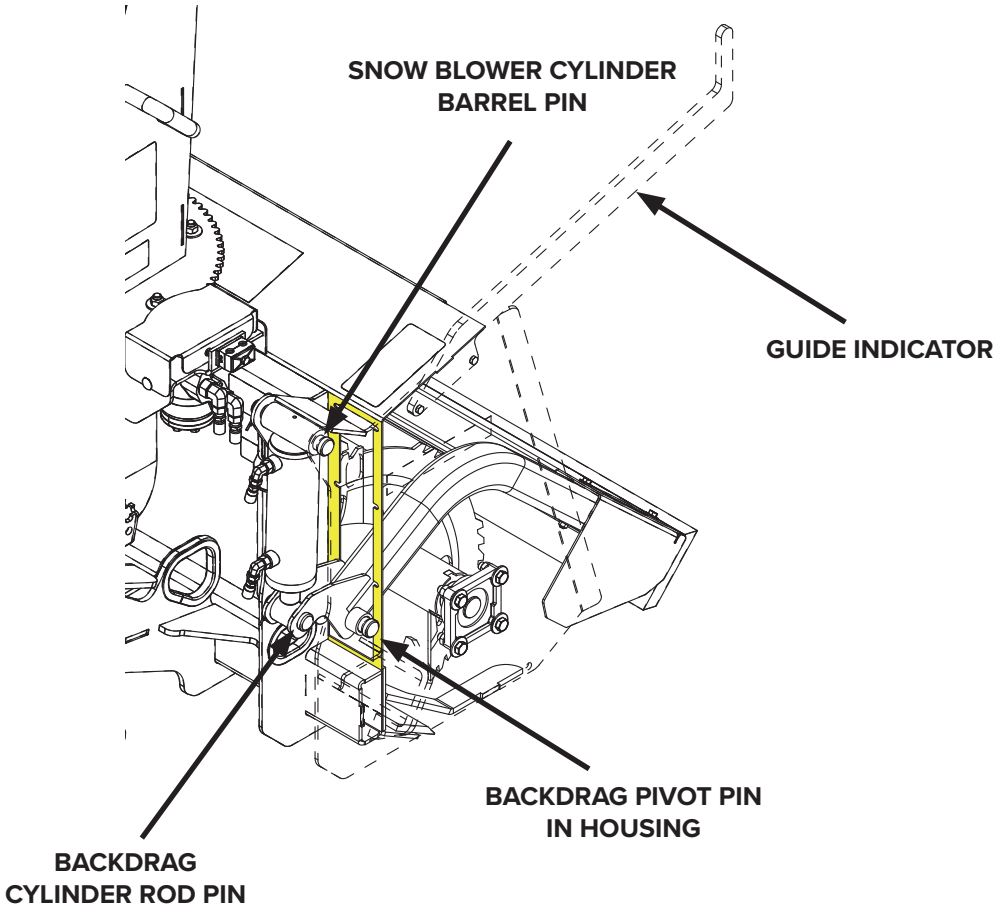
1. Safely detach the snow blower from the prime mover following the Detaching instructions.

NOTICE!

It will be necessary to have a lifting device or additional help while installing the backdrag. The snow blower weighs more than 800 lbs., the backdrag weighs more than 100 lbs.

2. Using a lifting device, lift the snow blower off the ground.
3. Pin the skid shoes in the lowest position for backdrag installation or remove entirely. The skid shoes can be returned to their previous position after backdrag installation is complete. Refer to Skid Shoe Adjustment.
4. Lower the snow blower onto the ground.
5. Remove the backdrag arm pass-through covers from the rear of the snow blower housing.
6. Pin the cylinder barrels onto the pinning points on the snow blower. See Figure #3

FIGURE #3

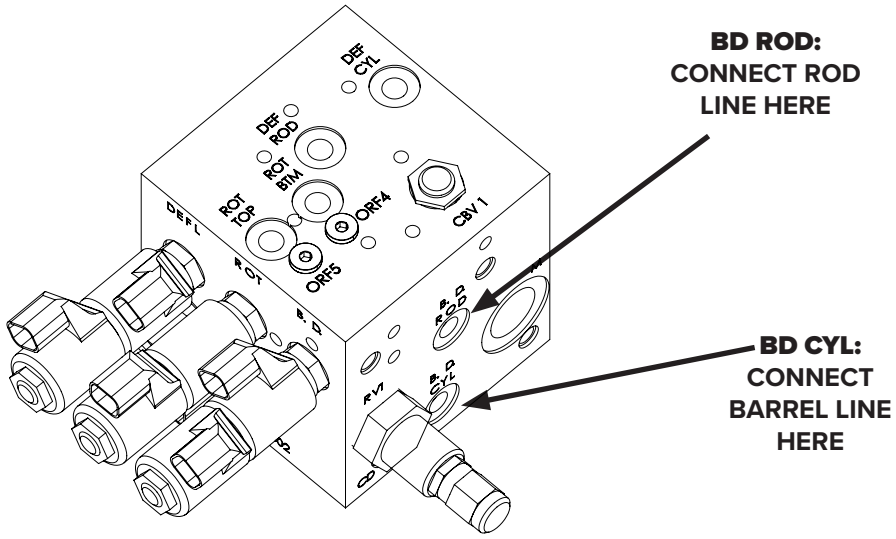


YELLOW HIGHLIGHTS THE BACKDRAG ARM PASS-THOUGH

Installation

7. Using the fittings provided, connect the hydraulic lines from the manifold to the cylinders. The rod line connects to the "BD ROD" port on the manifold. The barrel line connects to the "BD CYL" port on the manifold. A plug in each port must be removed from the manifold before fittings are installed. See Figure #4

FIGURE #4



NOTICE!

Route lines away from hot and/or moving parts to avoid wire damage. Hose cradles for routing are provided.

8. Using a lifting device or two helpers, slide the backdrag arms through the uncovered pass-through on the snow blower housing.
9. Carefully lift the backdrag to pin the arms to the cylinders. Refer to Figure #3
10. Pin the backdrag arms to the snow blower housing. Refer to Figure #3
11. Using a crane to lift the snow blower, return the skid shoes to the desired height.
12. Bolt the included guide indicators onto the snow blower housing.

DETACHING

1. Follow the shutting down procedure in the Operation Section of this manual.
2. Before exiting the prime mover, lower the attachment to the ground, apply the brakes, turn off the prime mover's engine, and remove the key.
3. Follow prime mover operator's manual to relieve pressure in the hydraulic lines.
4. Disconnect power and return hoses from the auxiliary hydraulics.
5. Disconnect the electrical wire harness from the auxiliary electrical connector, or Paladin control box.
6. Follow your prime mover operator's manual for detaching (removing) an attachment.
7. Connect hydraulic couplers together or install caps to prevent contaminants from entering the hydraulic system. Store hoses off of the ground to help prevent damage.

Operation

INTENDED USE

This Hydraulic Snow Blower has been designed and built to move loose snow. Use in any other way is considered contrary to the intended use. Compliance with and strict adherence to operation, service and repair conditions as specified by the manufacturer, are also essential elements of the intended use.

⚠ WARNING!

Avoid serious injury. THE Backdrag MOVES QUICKLY! Do not allow anyone underneath the raised backdrag.

SKID SHOE ADJUSTMENT

Skid shoes are mounted on the back of both sides of the snow blower housing. They adjust up and down to regulate the distance between the cutting edge and the plowing surface. When removing snow from gravel or uneven surfaces it is recommended lowering the skid shoes to keep the cutting edge as high above the surface as possible. For smoother surfaces such as blacktop or concrete, we recommend raising the skid shoes which will lower the cutting edge placing it closer to the surface.

After determining the surface beneath the snow, adjust the skid shoes.

NOTE

The skid shoes are shipped in the raised position for hard smooth surfaces such as concrete or asphalt. If the surface is soft or uneven, then you will need to lower the skid shoes.

1. Park your prime mover on a level surface with this product properly attached.
2. Place your prime mover's transmission in "Park" and apply the brakes.
3. Lower this product's cutting edge onto wood or steel blocking that is adequate to safely hold the base of the skid shoes 2.50" to 3" off of the level surface OR tilt the snow blower forward (keeping the loader arms locked to the attachment mounting plate), holding the skid shoes 2.50" to 3" off the ground.
4. Turn off your prime mover's engine, remove the key, wait for all moving parts to come to a stop. Follow prime mover operator's manual to relieve pressure in the hydraulic lines.
5. Remove the locking handle that secures the skid shoe.
6. Adjust the positioning of the skid shoe. Re-secure the skid shoe with the locking handle at the desired height.
7. Repeat for the other skid shoe.

Operation

OPERATION

Try to remove snow as soon as possible after the snow falls; snow becomes more compact and difficult to throw the longer it lies on the ground. To maximize the snow moving capabilities, try to remove snow before the accumulation reaches 12". Snow removal conditions vary greatly from light fluffy snow to wet heavy snow. Operating instructions must be flexible enough to fit the conditions encountered. The operator must adapt to depth of snow, wind conditions, type of snow, temperature and surface conditions.

1. Remove all foreign objects, such as sleds, boards, and wire from the snow removal area.
2. Rotate the chute and adjust the deflector so thrown snow is directed into open areas.

IMPORTANT

Never direct the discharge towards people, livestock or where property damage can occur. Keep children and all bystanders away from discharge area.

3. Adjust skid shoes according to the surface being cleared.
4. When blowing snow, approach the snow with the wind at the operator's back whenever possible.
5. Auger speed is directly related to engine speed. Start the prime mover and engage the auger. Increase engine speed and start forward travel.

NOTICE!

Placing the loader arm hydraulics in the float position decreases the prime mover's capability to provide the desired hydraulic flow and pressure to your snow blower's motors. Snow throwing performance will therefore be reduced.

Holding the toggle switches in the powered position after the actuator has reached the end of that device's cycle of movement can result in damage to this product and will void all Paladin warranties.

Applying force on the deflector from any source, other than blown snow, causing the deflector to either compress or extend the deflector's actuator can result in damage to this product and will void all Paladin warranties.

Using your snow blower as a "plow" can result in damage to this product and will void all Paladin warranties. Snow deeper than the cutting height can cause damage to this product and will void all Paladin warranties.

Do not use the backdrag for pushing. Do not push the backdrag into large snow piles. Pushing with the backdrag will cause damage to the attachment and will void all Paladin warranties.

6. When clearing a large area, cut the first pass on the upwind side and work downwind.
7. If an excessive amount of snow is being pushed in front of the auger housing, ***SLOW DOWN!!*** Allow the auger and fan enough time to properly collect and throw the snow.

Note

If blowing large piles it is recommended to reinstall the lockout pins.

DANGER!

DO NOT reach into the auger area or chute until the prime mover engine is turned off, the hydraulic pressure relieved, and key is removed.

FOREIGN OBJECT IN AUGER OR FAN

If a foreign object becomes wedged in the auger or fan:

1. Follow the instructions to detach the snow blower from the prime mover. See Detaching.
2. Disconnect the hydraulic couplers from your prime mover and connect them together to prevent foreign material from entering the hydraulic system.
3. Using a wooden stick remove the foreign object.
4. Once the has been removed, reconnect the hydraulic couplers & reattach the snow blower.

OPERATING TIPS

- Discharge snow downwind whenever possible
- Allowing the snow blower to reach outside temperature before operating will help prevent snow from sticking to the snow blower. Applying a light coat of wax on the inside surfaces will also help.
- Remove stones, sticks and other foreign objects before they become hidden by the first snow-fall will help to eliminate them from become wedged in the auger or fan.

SHUTTING DOWN

1. Rotate the chute so that it points forward to allow for grab irons to be accessible during prime mover entry & exit.
2. Lower the backdrag to the ground.
3. Follow the safety shut down procedure for your prime mover.

STORAGE

- Clean the unit thoroughly, removing all snow, mud, dirt, and grease.
- Inspect for visible signs of wear, breakage, or damage. Order any parts required and make the necessary repairs to avoid delays upon removal from storage.
- Tighten loose nuts, capscrews and hydraulic connections.
- Coat exposed portions of the cylinder rods with grease.
- Lubricate grease fittings.

- Seal hydraulic system from contaminants and secure all hydraulic hoses off the ground to help prevent damage.
- Disconnect control box & store in a safe location.
- Replace decals that are damaged or in unreadable condition.
- Store unit in a dry and protected place. Leaving the unit outside will materially shorten its life.

Additional Precautions for Long Term Storage:

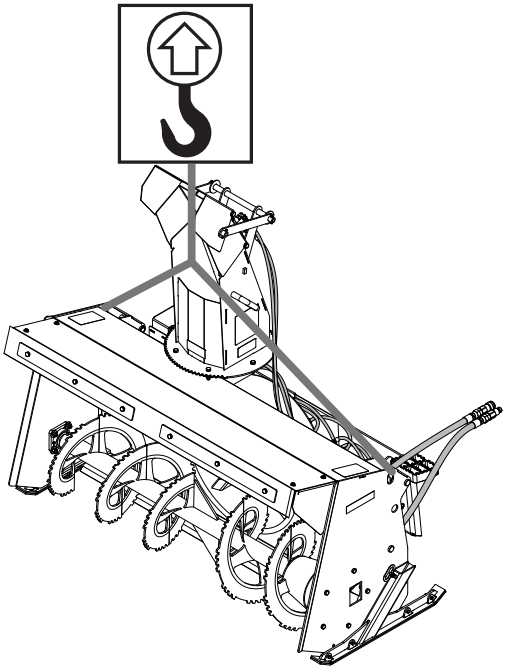
- Touch up all unpainted surfaces with paint to prevent rust.

REMOVAL FROM STORAGE

- Wash unit and replace any damaged and/or missing parts.
- Lubricate grease fittings.
- Check hydraulic hoses for damage and replace as necessary.

LIFT POINTS

Lifting points are identified by lifting decals where required. Lifting at other points is unsafe and can damage attachment. Do not attach lifting accessories around cylinders or in any way that may damage hoses or hydraulic components. See Diagram



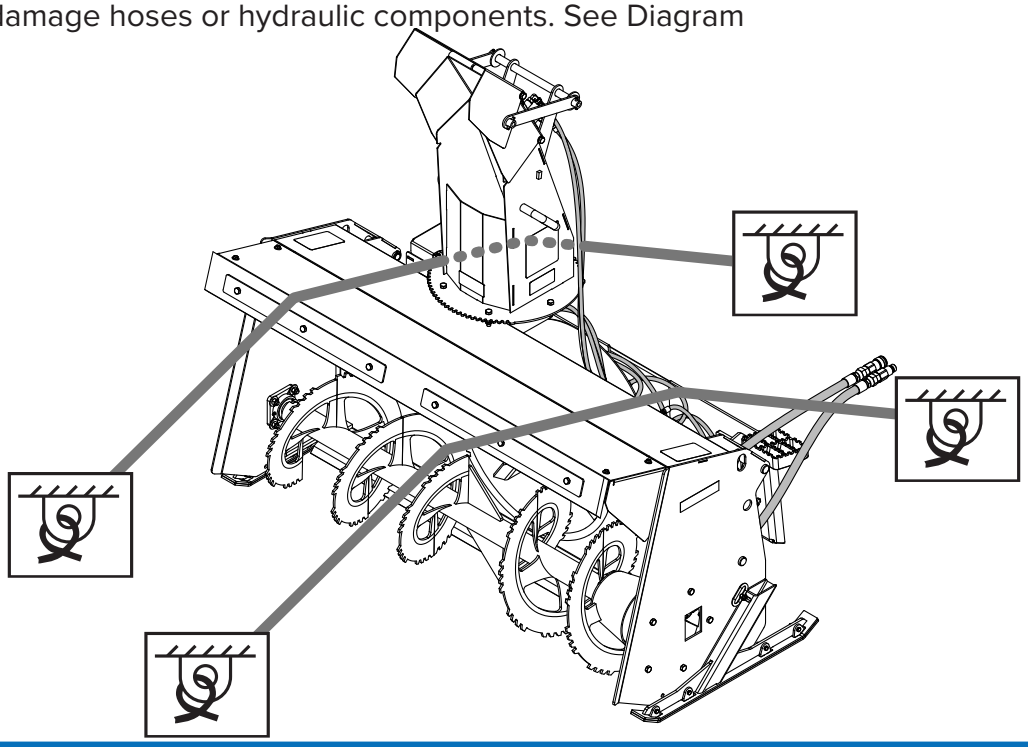
⚠ WARNING!

Use lifting accessories (chains, slings, ropes, shackles and etc.) that are capable of supporting the size and weight of your attachment. Secure all lifting accessories in such a way to prevent unintended disengagement. Failure to do so could result in the attachment falling and causing serious personal injury or death.

- Attach lifting accessories to unit at recommended lifting points.
- Bring lifting accessories together to a central lifting point.
- Lift gradually, maintaining the equilibrium of the unit.

TIE DOWN POINTS

Tie down points are identified by tie down decals where required. Securing to trailer at other points is unsafe and can damage attachment. Do not attach tie down accessories around cylinders or in any way that may damage hoses or hydraulic components. See Diagram



NOTICE!

Using the Auger to tie down attachment can result in damage to this product and will void all Paladin warranties.

- Attach tie down accessories to unit as recommended.
- Check unit stability before transporting.

⚠ WARNING!

Verify that all tie down accessories (chains, slings, ropes, shackles and etc.) are capable of maintaining attachment stability during transporting and are attached in such a way to prevent unintended disengagement or shifting of the unit. Failure to do so could result in serious personal injury or death.

TRANSPORTING

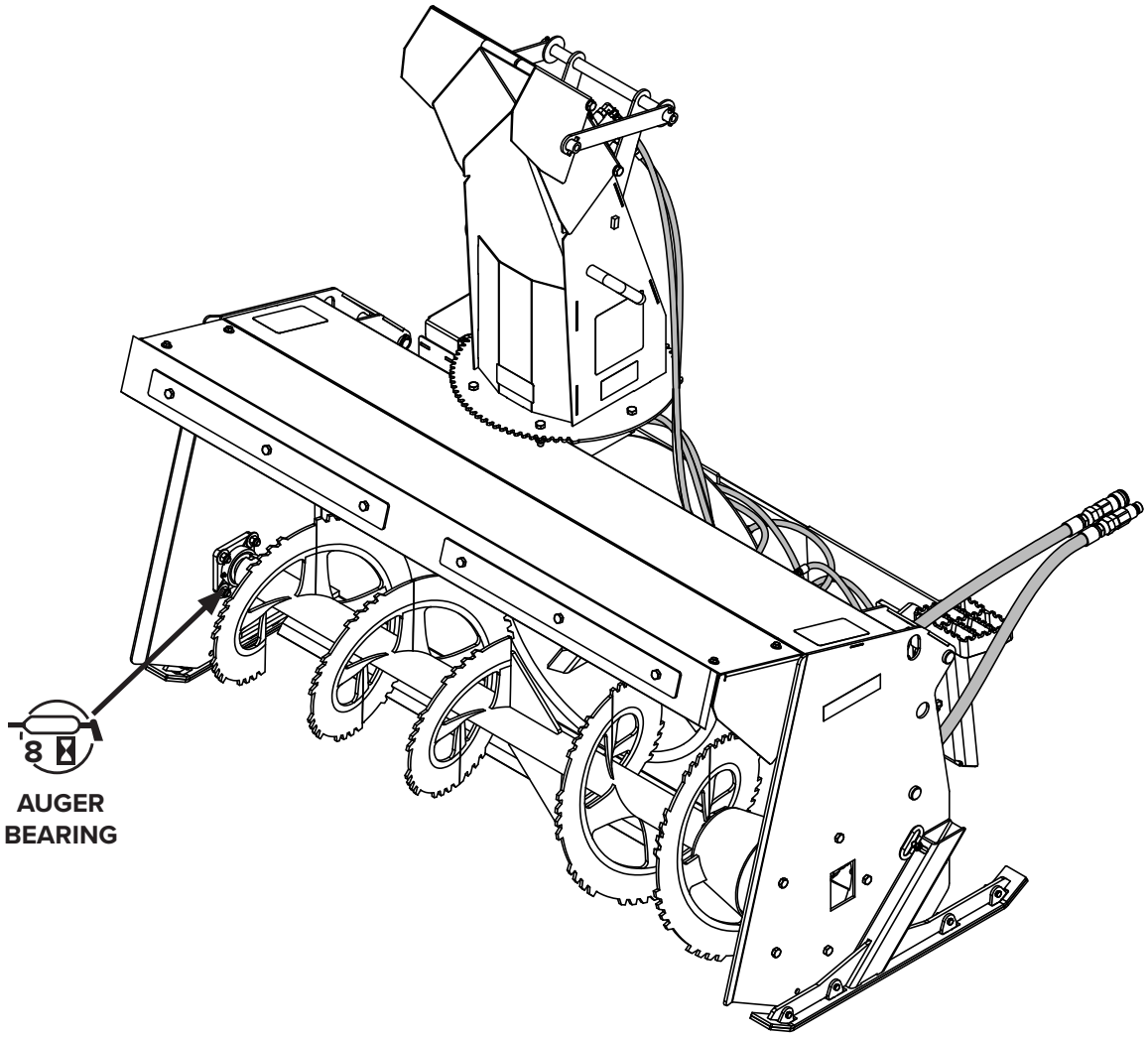
Follow all local government regulations that may apply along with recommended tie down points and any equipment safety precautions at the front of this handbook when transporting your attachment.

Lubrication

LUBRICATION

All parts provided with grease fittings should be lubricated as indicated. If any grease fittings are missing, replace them immediately. Clean all fittings thoroughly before using grease gun.

Lubricate daily or every 8 hours of operation, whichever comes first, with SAE Multi-Purpose Lubricant or an equivalent SAE Multi-Purpose type grease.



IMPORTANT

Avoid excessive greasing. Dirt collects on exposed grease and greatly increases wear. After greasing, wipe off excessive grease from fittings.

Maintenance

GENERAL INFORMATION

Regular maintenance is the key to long equipment life. Maintenance requirements have been reduced to an absolute minimum. However it is very important that these maintenance functions be performed as described below.

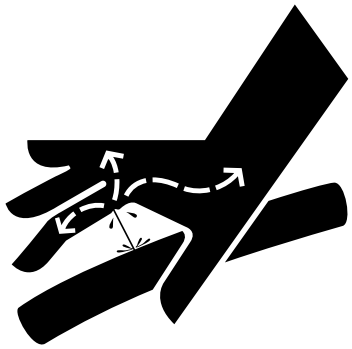
Procedure	Every 8 Hours (Daily)
Check prime mover hydraulic system to ensure an adequate level and cleanliness of hydraulic oil.	✔
Check for missing or loose hardware. Replace or tighten as necessary. See bolt torque specifications	✔
Check hydraulic system for leaks and tighten as necessary. Check for damage and replace as needed.	✔
Check for missing or damaged safety decals and replace as necessary.	✔
Inspect attachment for any worn parts or cracked welds. Repair as required.	✔
Lubricate grease fittings.	✔
Lubricate & retract cylinder rods.	✔
Make sure chute and deflector are not frozen.	✔

⚠ WARNING!

USE CARE WITH HYDRAULIC FLUID PRESSURE

Hydraulic fluid under pressure can penetrate the skin and cause serious injury or death. Hydraulic leaks under pressure may not be visible. Before connecting or disconnecting hydraulic hoses, read your prime mover's operator's manual for detailed instructions on connecting and disconnecting hydraulic hoses or fittings.

- **Keep unprotected body parts, such as face, eyes, and arms as far away as possible from a suspected leak. Flesh injected with hydraulic fluid may develop gangrene or other permanent disabilities.**
- **If injured by injected fluid, see a doctor at once. If your doctor is not familiar with this type of injury, ask him to research it immediately to determine proper treatment.**
- **Wear safety glasses, protective clothing, and use a piece of cardboard or wood when searching for hydraulic leaks. DO NOT USE YOUR HANDS!**

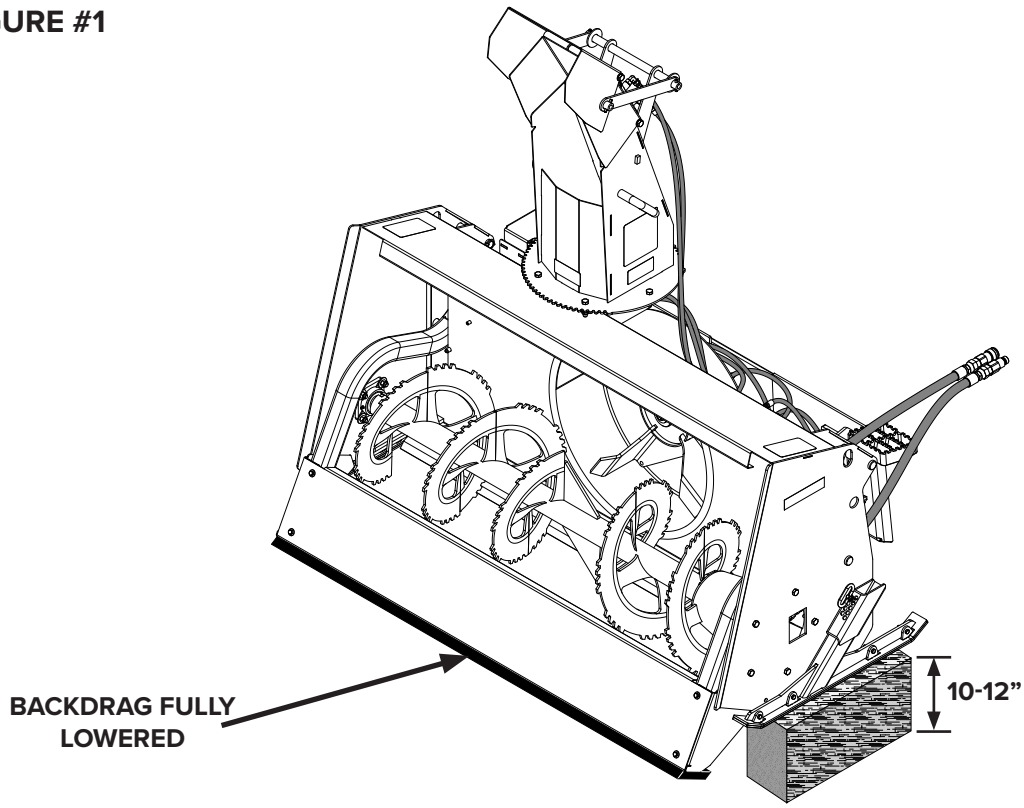


Maintenance

REPLACING THE CUTTING EDGE

1. Park your prime mover on a level surface with this product properly attached.
2. Lower this product's skid shoes onto wood or steel blocking that is adequate to safely hold the base of the skid shoes 10" to 12" off the level surface. See Figure #1

FIGURE #1



3. Fully lower the backdrag so that the cutting edge of the backdrag is below the bottom of the snow blower.

⚠ WARNING!

Avoid serious injury. THE Backdrag MOVES QUICKLY! Do not allow anyone underneath the raised backdrag.

4. Apply the parking brakes, turn off the engine and remove the key. Wait for all moving parts to come to a stop, and relieve all pressure in the hydraulic lines.
5. Disconnect the hydraulic lines from the prime mover.
6. Remove all but the end nuts, lock washers, and bolts from the cutting edge.
7. On one end of the cutting edge, remove the remaining nut and lower the cutting edge to the work surface. Repeat for other end.
8. Properly dispose of the old cutting edge and install a new cutting edge by reversing the above procedure.

BACKDRAG RUBBER EDGE INSTALLATION

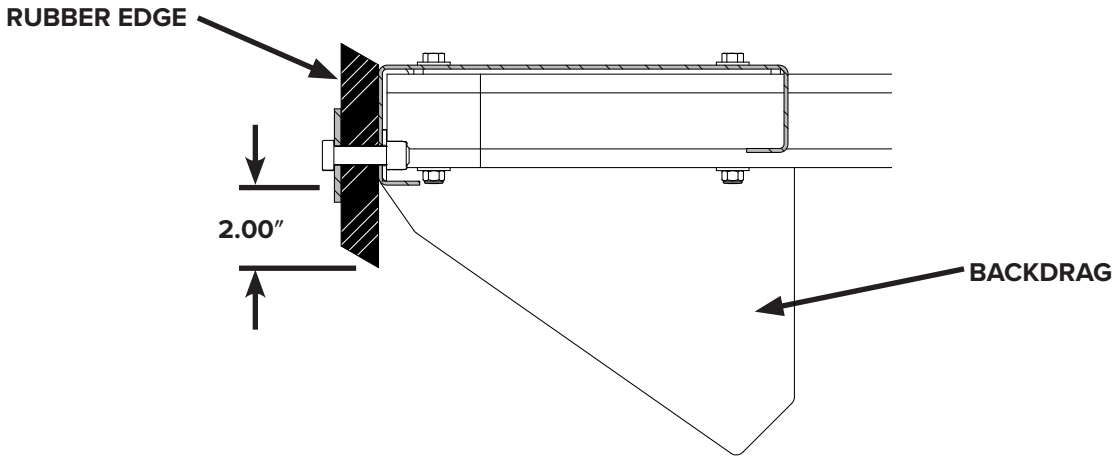
1. Park your prime mover on a level surface with this product properly attached.
2. Lower this product's skid shoes onto wood or steel blocking that is adequate to safely hold the base of the skid shoes 10" to 12" off the level surface. Refer to Figure #1
3. Fully lower the backdrag so that the cutting edge of the backdrag is below the bottom of the snow blower.

⚠ WARNING!

Avoid serious injury. THE Backdrag MOVES QUICKLY! Do not allow anyone underneath the raised backdrag.

4. Apply the parking brakes, turn off the engine and remove the key. Wait for all moving parts to come to a stop, and relieve all pressure in the hydraulic lines.
5. Place the rubber edge on the leading edge of the backdrag.
6. Place the rubber edge strap on top of the rubber edge and loosely secure both to the backdrag with hardware shown in parts list.
7. Adjust the rubber edge so that a maximum of 2.00" (5.08 cm) of the rubber edge is exposed in front of the steel plate on the backdrag. See Figure #2
8. Tighten the hardware to 75 ft. lbs (102N-m).

FIGURE #2

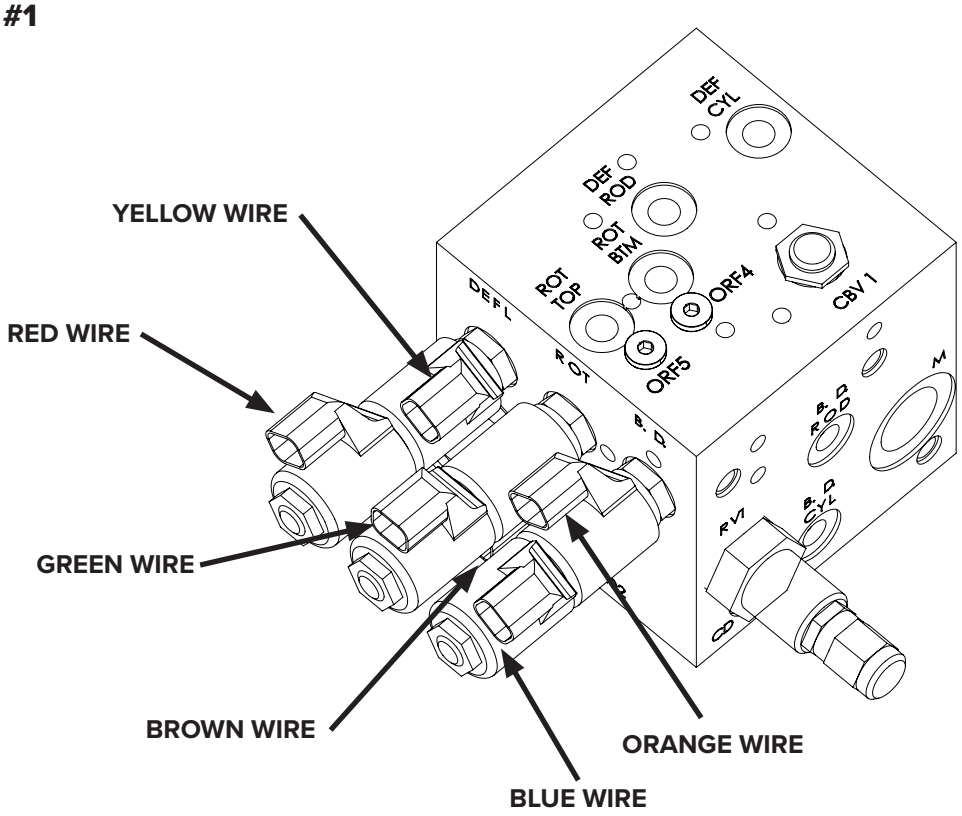


HYDRAULIC CONTROL VALVE

A multi-position switch (normally open) is used to operate the control valve. Control power (12 volt) is supplied by the power cord attached to the prime mover electrical system. The switch wires are connected to the direction control valve as shown in Figure #1 below.

The control valve uses a small amount of hydraulic oil bypassed from the auger & fan drive motor circuits. The prime movers auxiliary hydraulic system must be connected and engaged to provide adjustment.

FIGURE #1



CYLINDER SEAL REPLACEMENT

The following information is provided to assist you in the event you should need to repair or rebuild a hydraulic cylinder. When working on hydraulic cylinders, make sure that the work area and tools are clean and free of dirt to prevent contamination of the hydraulic system and damage to the hydraulic cylinders. Always protect the active part of the cylinder rod (the chrome section). Nicks or scratches on the surface of the rod could result in cylinder failure. Clean all parts thoroughly with a cleaning solvent before reassembly.

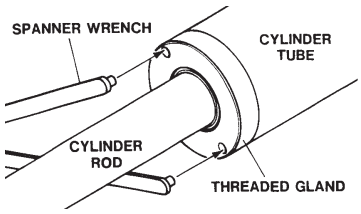
DISASSEMBLY PROCEDURE

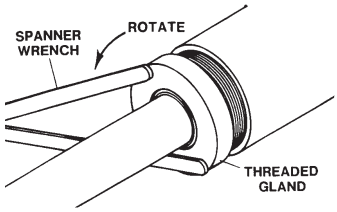
IMPORTANT

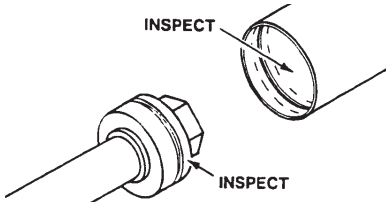
Do not contact the active surface of the cylinder rod with the vise. Damage to the rod could result.

Threaded Type Gland

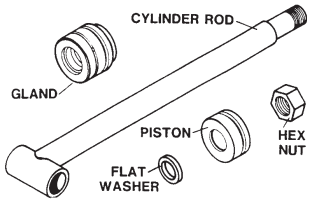
1. Rotate the gland with a spanner wrench counterclockwise until the gland is free of the cylinder tube.
2. Pull the cylinder rod from the cylinder tube and inspect the piston and the bore of the cylinder tube for deep scratches or galling. If damaged, the piston AND the cylinder tube must be replaced.

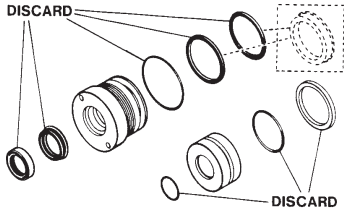






3. Remove the hex nut, piston, flat washer or spacer tube (if so equipped), and gland from the cylinder rod. If the cylinder rod is rusty, scratched, or bent, it must be replaced.
4. Remove and discard all the old seals.





Assembly Procedure

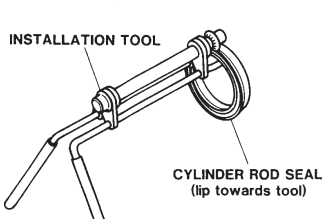
IMPORTANT

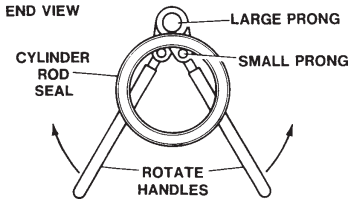
Replace all seals even if they do not appear to be damaged. Failure to replace all seals may result in premature cylinder failure. NOTE: Seal kits will service most cylinders of similar bore size and rod diameter.

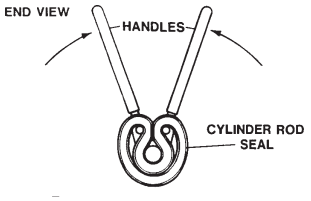
1. Install the cylinder rod seal in the gland first. Be careful not to damage the seal in the process, as it is somewhat difficult to install.

NOTE

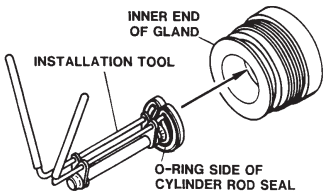
A special installation tool (Part #65349) is available to help with installing the seal. Simply fit the end of the tool over the seal so that the large prong of the tool is on the outside of the seal, and the two smaller prongs on the inside. The lip of the seal should be facing towards the tool. Rotate the handles on the tool around to wrap the seal around the end of the tool.







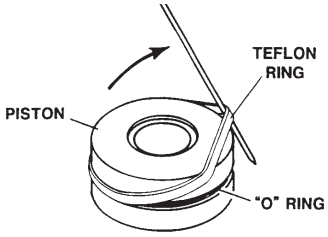
Rotate the handles on the tool around to wrap the seal around the end of the tool.



Now insert the seal into the gland from the inner end. Position the seal in its groove, and release and remove the tool. Press the seal into its seat the rest of the way by hand.

1. Install the new piston ring, rod wiper, O-rings and backup washers, if applicable, on the piston.

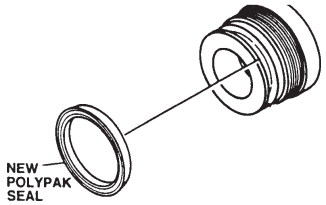
Be careful not to damage the seals. Caution must be used when installing the piston ring. The ring must be stretched carefully over the piston with a smooth, round, pointed tool.

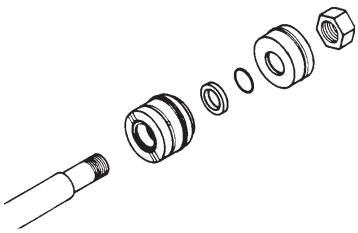


2. After installing the rod seal inside the gland, as shown in step #1, install the external seal.

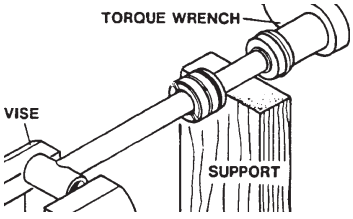
NOTE

Threaded glands may have been equipped with a separate O-ring and backup washer system or a polypak (all in one) type seal. Current seal kits contain a polypak (all in one) type seal to replace the discarded seal types on ALL THREADED GLANDS.





3. Slide the gland onto the cylinder rod, being careful not to damage the rod wiper. Then install the spacer, or flat washer (if so equipped), small o-ring, piston, and hex nut onto the end of the cylinder rod.



1. Secure the cylinder rod (mounting end) in a vise with a support at its center. Torque the nut to the amount shown for the thread diameter of the cylinder rod (see chart).

Thread Diameter	Pounds - Feet
7/8”	150-200
*1”	230-325
1-1/8”	350-480
1-1/4”	490-670
1-3/8”	670-900
*** 1” Thread Diameter WITH 1.25” Rod Diameter Min. 230 ft. lbs. Max. 252 ft. lbs.**	

IMPORTANT

Do not contact the active surface of the cylinder rod with the vise. Damage to the rod could result.

2. Apply a lubricant (such as Lubriplate #105) to the piston and Teflon ring. Insert the cylinder rod assembly into the cylinder tube.

IMPORTANT

Ensure that the piston ring fits squarely into the cylinder tube and piston groove, otherwise the ring may be damaged and a leak will occur.

3. Use a spanner wrench to rotate the gland clockwise into the cylinder. Continue to rotate the gland with the spanner wrench until it is tight.

⚠ WARNING!

Cylinders serviced in the field are to be tested for leakage prior to the attachment being placed in work. Failure to test rebuilt cylinders could result in damage to the cylinder and/or the attachment, cause severe personal injury or even death.

Tool Disposal

Hydraulic Oil
Hydraulic oil can contaminate the air, ground and water if not properly recycled. Recycle hydraulic oil in accordance with all State, Federal and local laws, at your local oil recycling facility.

Hydraulic Hoses
Hang hydraulic hoses to drain. Collect the oil for recycling. Contact your local municipal recycling authorities for an approved hydraulic hose recycling site.

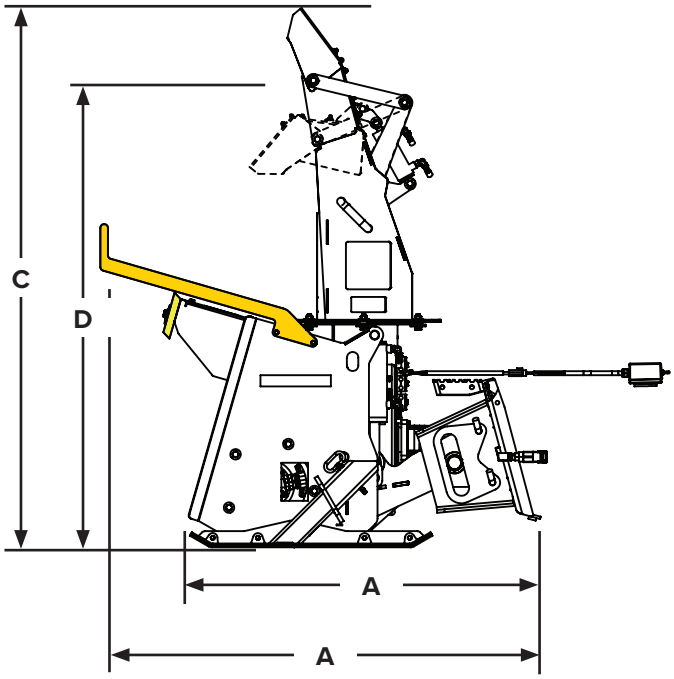
Gear Oil
Drain the gear oil and collect it for recycling. Do not throw away or pour down the drain. Contact your local municipal recycling authorities for recycling instructions.

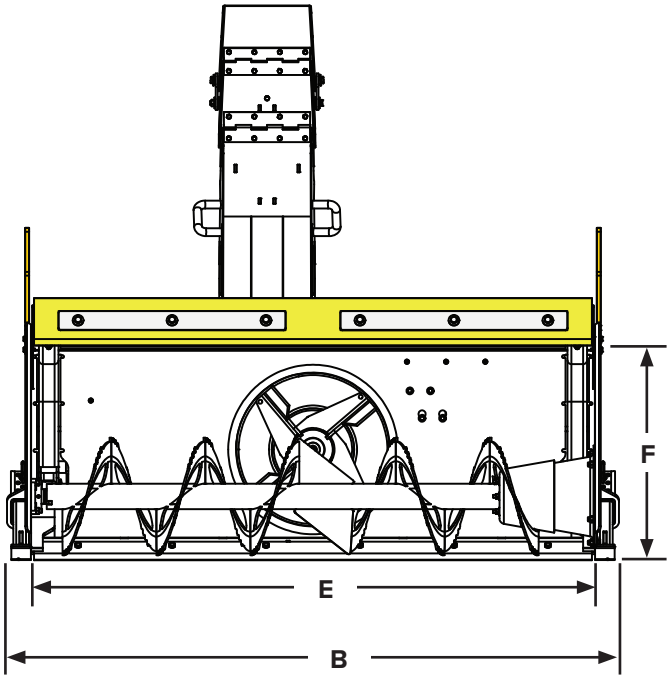
Tool Body
Disassemble the tool and dispose of all non-metal parts. Recycle the metal components. Contact your local municipal recycling authorities for recycling instructions.

Troubleshooting

Problem	Possible Cause	Possible Solution
AUGER WILL NOT ROTATE	Hoses installed incorrectly.	Switch quick coupler fittings.
	Hydraulic valve on prime mover not engaged.	See prime mover operator's manual.
	Worn, damaged, insufficient or inadequate pump.	Repair or replace hydraulic pump.
	Insufficient oil in system.	See prime mover operator's manual.
	Hose ends not completely engaged.	Check hose couplings and engage properly.
	Air in hydraulic lines.	Cycle prime mover auxiliary system several times to remove air from lines.
	Obstruction in hydraulic lines.	Replace obstructed or damaged line.
CHUTE WILL NOT ROTATE/ANGLE	Hydraulic valve on prime mover not engaged.	See prime mover operator's manual.
	Worn, damaged, insufficient or inadequate pump.	Repair or replace hydraulic pump.
	Insufficient oil in system.	See prime mover operator's manual.
	Hose ends not completely engaged.	Check hose couplings and engage properly.
	Air in hydraulic lines.	Cycle prime mover auxiliary system several times to remove air from lines.
	Obstruction in hydraulic lines.	Replace obstructed or damaged line.
	Electrical failure.	See prime mover operator's manual.
OIL LEAKS	Worn or damaged seal.	Replace leaking seal.
	Loose or damaged hoses.	Replace damaged hoses and tighten loose hoses.
	Loose or damaged connections.	Replace damaged connectors and tighten loose fittings.

Specifications





Snow Blowers	Low & Compact Flow				High Flow	
Description	**48”**	**60”**	**72”**	**84”**	**72”**	**84”**
A. Overall Length without Backdrag	45.50″	45.50″	45.50″	45.50″	55.00″	49.00″
A. Overall Length with Backdrag*	-	57.80″	57.80″	57.80″	57.80″	57.80″
B. Overall Width	53.00″	65.00″	77.00″	89.00″	77.00″	89.00″
C. Maximum Overall Height	71.00″	71.00″	71.00″	71.00″	78.00″	78.00″
D. Minimum Overall Height	60.00″	60.00″	60.00″	60.00″	65.75″	65.75″
E. Cutting Width	48.00″	60.00″	72.00″	84.00″	72.00″	84.00″
F. Cutting Height	27.50″	27.50″	27.50″	27.50″	34.50″	33.50″
Weight (lbs)	820#	860#	905#	945#	1045#	1090#
Backdrag Weight (lbs)*	-	160#	165#	175#	175#	190#
Hydraulic Pressure	2000-3000 PSI					
Compact Flow Range (B Series)	8-15 gpm					
Low Flow Range (D Series)	15-27 gpm					
High Flow Range (F Series)	27-35 gpm					
Extra High Flow Range (H Series)	35-45 gpm					

* Backdrag not available in 48” models.

SPECIFICATIONS AND DESIGN ARE SUBJECT TO CHANGE WITHOUT NOTICE AND WITHOUT LIABILITY THEREFOR.

Bolt Torque Specifications

GENERAL TORQUE SPECIFICATION TABLES

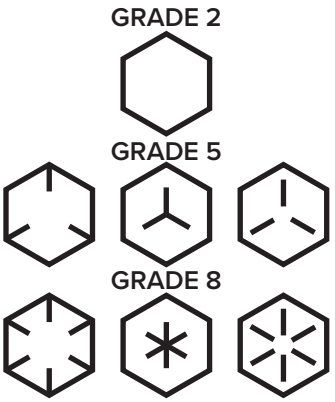
Use the following charts when determining bolt torque specifications when special torques are not given. Always use grade 5 or better when replacing bolts.

SAE BOLT TORQUE SPECIFICATIONS

IMPORTANT

The following torque values are for use with extreme pressure lubricants, plating or hard washer applications Increase torque 15% when using hardware that is unplated and either dry or lubricated with engine oil.

Bolt Size		SAE Grade 5 Torque Pounds Feet		SAE Grade 5 Torque Newton-Meters		SAE Grade 8 Torque Pounds Feet		SAE Grade 8 Torque Newton-Meters	
Inches	Millimeters	UNC	UNF	UNC	UNF	UNC	UNF	UNC	UNF
1/4	6.35	8	9	11	12	10	13	14	18
5/16	7.94	14	17	19	23	20	25	27	34
3/8	9.53	30	36	41	49	38	46	52	62
7/16	11.11	46	54	62	73	60	71	81	96
1/2	12.70	68	82	92	111	94	112	127	152
9/16	14.29	94	112	127	152	136	163	184	221
5/8	15.88	128	153	174	207	187	224	254	304
3/4	19.05	230	275	312	373	323	395	438	536
7/8	22.23	340	408	461	553	510	612	691	830
1	25.40	493	592	668	803	765	918	1037	1245
1-1/8	25.58	680	748	922	1014	1088	1224	1475	1660
1-1/4	31.75	952	1054	1291	1429	1547	1700	2097	2305
1-3/8	34.93	1241	1428	1683	1936	2023	2312	2743	3135
1-1/2	38.10	1649	1870	2236	2535	2686	3026	3642	4103



BOLT HEAD IDENTIFICATION MARKS AS PER GRADE. NOTE: MANUFACTURING MARKS WILL VARY

METRIC BOLT TORQUE SPECIFICATIONS

NOTE

The following torque values are for use with metric hardware that is unplated and either dry or lubricated with engine oil. Reduce torque 15% when using hardware that has extreme pressure lubricants, plating or hard washer applications.

BOLT HEAD IDENTIFICATION MARKS AS PER GRADE.

Size of Bolt	Grade No.	Pitch (mm)	Pounds Feet	Newton-Meters	Pitch (mm)	Pounds Feet	Newton-Meters
	5.6		3.6-5.8	4.9-7.9		-	-
M6	8.8	1.0	5.8-.4	7.9-12.7	-	-	-
	10.9		7.2-10	9.8-13.6		-	-
	5.6		7.2-14	9.8-19		12-17	16.3-23
M8	8.8	1.25	17-22	23-29.8	1.0	19-27	25.7-36.6
	10.9		20-26	27.1-35.2		22-31	29.8-42
	5.6		20-25	27.1-33.9		20-29	27.1-39.3
M10	8.8	1.5	34-40	46.1-54.2	1.25	35-47	47.4-63.7
	10.9		38-46	51.5-62.3		40-52	54.2-70.5
	5.6		28-34	37.9-46.1		31-41	42-55.6
M12	8.8	1.75	51-59	69.1-79.9	1.25	56-68	75.9-92.1
	10.9		57-66	77.2-89.4		62-75	84-101.6
	5.6		49-56	66.4-75.9		52-64	70.5-86.7
M14	8.8	2.0	81-93	109.8-126	1.5	90-106	122-143.6
	10.9		96-109	130.1-147.7		107-124	145-168
	5.6		67-77	90.8-104.3		69-83	93.5-112.5
M16	8.8	2.0	116-130	157.2-176.2	1.5	120-138	162.6-187
	10.9		129-145	174.8-196.5		140-158	189.7-214.1
	5.6		88-100	119.2-136		100-117	136-158.5
M18	8.8	2.0	150-168	203.3-227.6	1.5	177-199	239.8-269.6
	10.9		175-194	237.1-262.9		202-231	273.7-313
	5.6		108-130	146.3-176.2		132-150	178.9-203.3
M20	8.8	2.5	186-205	252-277.8	1.5	206-242	279.1-327.9
	10.9		213-249	288.6-337.4		246-289	333.3-391.6

Parts

In order to provide you with the most UP-TO-DATE part information, all parts for this attachment have been moved to our website at www.paladinattachments.com. Please use these diagrams and parts lists to locate replacement parts.

When servicing your attachment, remember to use only original manufacturer replacement parts. Substitute parts may not meet the standards required for safe, dependable operation.

To facilitate parts ordering when contacting the factory, please have the product control number (PCN or C/N) or model and serial number of your product ready to ensure that you receive the correct parts for your specific attachment.

The product control number, model and serial number for your attachment should be recorded in the space provided on the cover of this manual. This information may be obtained from the serial number identification plate located on your attachment.

IMPORTANT

Most daily and emergency parts orders (in stock) received by 10:30 A.M. (Eastern Standard Time) will be shipped UPS Ground the same day received. UPS Next Day orders must be received by 1:30 PM (Eastern Standard Time.)

SERVICE DEPARTMENT
(734) 996-9116
(800) 456-7100

For Fax and E-mail Orders
PLC_Sales@paladinattachments.com
(734) 996-9014

Warranty

In order to provide you with the most UP-TO-DATE Warranty information, Paladin Warranty Statement and Warranty Procedures along with Warranty Registration and Claim Forms have been moved to our website at www.paladinattachments.com.

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Dexter, MI 48130 USA