

# BAUNALIGHT

S24 And S28 Stump Grinder

**OPERATOR'S MANUAL** 

Issue Date: August 2025



# Service And Instructional Videos

# Find online at baumalight.com/support

Following is a list of videos and documents available on Baumalights website and also on YouTube to help and enhance maintaining the stump grinder. The list below was current at the time this manual was issued. Additional content may be available.

<b>Activity ID Number</b>	Activity Name	Description	Item Available
318	Hydraulic Motor.	Breaking In Replacement Hydraulic Motor.	Video
281	Skidsteer Case Drain Back- Pressure.	What May Cause Skidsteer Case Drain Back-Pressure.	Video
282	Skidsteer Case Drain Back- Pressure.	Testing Case Drain Back- Pressure With Pressure Gauge.	Video
283	Skidsteer Case Drain Back- Pressure.	Testing Case Drain Back- Pressure With Open Coupler.	Video
193	Chain Coupler.	Replacing Chain On Chain Couplers.	Video
104	Remove Seal.	Remove Seal On Motor Or Load Adapter.	Video
87	Inserting A Pin In A 8 And 14 Pin Connector.	Changing Pins In Aux Receptacle.	Video
76	Stump Grinder Trouble Shooting.	No Power Trouble Shooting.	Document

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### 1 INTRODUCTION

#### 1.1 Overview

Congratulations on your choice of a Baumalight Skidsteer Stump Grinder to complement your stump grinding operation. This equipment has been designed and manufactured to meet the needs of a discriminating buyer for efficient grinding of stumps.

The S24 and S28 have 34 teeth on a 24 inch rotor. This means less cutting for each tooth resulting in longer tooth life and smoother cutting for less wear on the skidsteer. Heavy tooth population makes finer mulch and smoother operation.

The rotor is powered by the hydraulics on your skidsteer with the swing cylinders activated by the standard remote hydraulic connectors on the skidsteer.

Grease zerks and replaceable bushings are provided at major pivot points for extended service life.

The debris shields is standard equipment on all stump grinders. It is recommended that the stump grinder never be operated without one.

Safe, efficient and trouble free operation of your Stump Grinder requires that you and anyone else who will be operating or maintaining the Stump Grinder, read and understand the Safety, Operation, Maintenance and Troubleshooting information contained within the Operator's Manual.

This manual covers the S24 and S28 Baumalight Skidsteer Stump Grinders. Use the Table of Contents as a guide to locate required information.

Keep this manual handy for frequent reference and to pass on to new operators or owners. Call your Baumalight dealer, distributor or the factory if you need assistance, information or additional copies of the manuals. When this machine is worn out and no longer in use, it should be returned to the retailer or other party for recycling.

OPERATOR ORIENTATION - The directions left, right, front and rear, as mentioned throughout this manual, are as seen from the skidsteer driver's seat and facing in the direction of travel.

## 1.2 Intended Use And Foreseeable Misuse

The Stump Grinder is designed to be used on site to remove softwood and hardwood tree stumps by reducing the stumps to chips and dust.

The Stump Grinder is designed to be used by experienced operators, trained in the safe operation of a skidsteer and trained in the hazards related to using the stump grinder and the safe use of the grinder for the intended purpose. Operators will require personal protective equipment to reduce the risk from some hazards that cannot be completely eliminated or controlled by the design of the tool.

Care is required to ensure that the Stump Grinder will not come across metallic objects, stones or other materials harder than a typical stump while grinding.

The Stump Grinders are not designed for use in hazardous atmospheres where there is a risk of fire or explosion due to flammable gases or vapors. Use in hazardous, explosive atmospheres is prohibited.

Serious injury or death of the operator or bystanders may be caused if the Stump Grinder is misused. Misuse may also cause damage to the skidsteer carrying the implement.

### 2 SAFETY

## 2.1 Safety Alert Symbol And Safety Words

You must read, understand and follow the instructions given by the operating unit manufacturers, as well as the instructions in this manual.

The safety information in this manual is denoted by the safety alert symbol:



This symbol means ATTENTION! BECOME ALERT! YOUR SAFETY IS INVOLVED!

The level of risk is indicated by the following signal words:

### A DANGER

DANGER - Indicates a hazardous situation, which, if not avoided, WILL result in death or serious injury.

### **A** WARNING

WARNING - Indicates a hazardous situation, which, if not avoided, could result in death or serious injury.

### **A** CAUTION

CAUTION - Indicates a hazardous situation, which, if not avoided, could result in minor or moderate injury.

#### NOTICE

NOTICE - Indicates a situation that could result in damage to the equipment or other property.

#### 2.2 Operational Hazards



#### **WARNING**

Prevent serious injury or death.

Read and understand this manual before operating stump grinder.

Always stop engine and remove key before leaving operators seat.

Never allow anyone near the stump grinder during operation.

Travel at a safe speed.

### **♠** WARNING

Prevent serious injury or death from moving parts.

Moving parts can crush and dismember.

Do not operate without guards and shields in place.

Disconnect and lock out power source before adjusting or servicing.

### A

#### WARNING

Use stump grinder only for the designed applications.

Any other use may result in personal injury, damage to equipment and may void the warranty.

### **WARNING**

Prevent serious injury or death.

Verify stump grinder is attached to skidsteer before operation or transport.

### **WARNING**

Protect from flying debris.

Wear proper safety glasses, goggles, or a face shield to protect from flying debris.

Carefully read all safety messages in this manual and on equipment safety signs. Keep safety signs in good condition and replace missing or damaged safety signs.

New equipment components and repair parts must include the current safety decal.

Learn how to properly operate equipment. NEVER operate or work around this equipment without proper instruction, while fatigued or under the influence of alcohol, prescription or non-prescription medication or if feeling ill.

Keep your equipment in proper working condition.

Know the regulations and laws that apply to you and your industry. This manual is not to replace any regulations or laws. Additional information may be found at: www.asae.org or www.osha.gov.

If you do not understand any part of this manual, contact Baumalight at 866-820-7603.

#### **Prepare for Emergencies**

- Be prepared in case of emergencies.
- Keep a fire extinguisher and first aid kit close to the machine.
- Keep emergency phone numbers close to your phone.
- Know your address so emergency services can locate you if an emergency arises.

#### **Replace Safety Signs**

- Replace missing or damaged safety signs.
- Safety signs are identified in Section 3 of this manual.
- Replacement safety signs are available from your Baumalight dealer.

#### Do Not Allow Riders

- NEVER lift or carry anyone with stump grinder.
- NEVER use stump grinder as a work platform.
- NEVER allow passengers on stump grinder.

#### **Lower Operating Speed**

- Lower operating speed while loading, unloading or performing heavy operations.
- Keep load low and move at slow speeds on rough or uneven terrain.

#### **Avoid Rollover**

The equipment may rollover, resulting in death or serious injury. To help prevent rollover:

- Travel at a slow speed.
- Avoid sharp turns & sudden movement on slopes.
- Carry loads close to the ground.
- Avoid holes, ditches and other obstructions which may cause equipment to rollover.
- Balance load so weight is evenly distributed and load is stable.
- Use caution when operating on slopes and do not operate on excessively steep slopes.
- Do not exceed load capacity of equipment.

## Avoid Powerlines & Underground Utilities

- Check clearance before raising equipment.
- Have local utilities locate and mark buried wires, cables, pipelines and other hazards before grinding.

#### A DANGER

#### Prevent electrocution.

Death or serious injury can result if equipment comes near or contacts power lines.

Electrocution can occur without direct contact.

DO NOT leave the operator's seat if any part of the equipment contacts electric lines or cables.

#### **Detach Stump Grinder Safely**

Detach stump grinder on a firm and level surface. Stump grinder may fall over if detached on sloping or soft surface. Be sure people, livestock and pets are clear of machinery.

Relieve hydraulic pressure before disconnecting hydraulic hoses. See your skidsteer Operator's Manual

#### **Raised Attachment**

### **A** WARNING

Crushing hazard.

Raised, unsupported stump grinder can fall, resulting in death or serious injury.

Never enter the area under a raised stump grinder unless properly supported.

A raised stump grinder can lower unexpectedly, resulting in death or serious injury.

NEVER enter area under a raised stump grinder unless stump grinder is properly and safely supported.

Lower stump grinder to ground, engage parking brake, shut off engine and remove key before servicing.

#### **Avoid Loud Noise**

### WARNING

Prolonged exposure to loud noise can cause impairment or loss of hearing.

Wear a suitable hearing protective device such as earmuffs or earplugs to protect against objectionable or uncomfortable loud noises.

#### **Hazards From Modifying Equipment**

Do not make any alterations to your stump grinder. Altering the equipment may cause unsafe conditions and may void the manufacturer's warranty.

#### **Avoid High Pressure Fluids**

#### **WARNING**

Pressurized fluids can penetrate the skin.

Hydraulic hoses can fail from age, damage and exposure.

Use body and face protection while searching for leaks. A tiny, almost invisible leak can penetrate the skin, thereby requiring immediate medical attention.

Use wood or cardboard to detect hydraulic leaks, never use your hands.

Escaping fluid under pressure can penetrate the skin causing serious injury.

Prevent the hazard by relieving pressure (See skidsteer Operator's Manual.) before connecting or disconnecting hydraulic lines. Verify all connections are tight before applying pressure.

Search for leaks with a piece of cardboard or wood.

Protect hands and body from high pressure fluids. If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be surgically removed within a few hours or serious infection may result.

#### **Avoid Wood Dust Inhalation**

#### **WARNING**

Drilling, sawing, sanding or machining wood products can expose you to wood dust, a substance known to the State of California to cause cancer.

Avoid inhaling wood dust or use a dust mask or other safeguards for personal protection. For more information go to www.P65Warnings.ca.gov/wood.

### **WARNING**

Wear an approved dust mask or respirator.

Follow local, state and federal regulations.

#### 2.3 Maintenance Hazards

Before servicing, park machine on a firm and level surface, set parking brake, chock wheels, and place a "Do Not Operate" tag on control panel. Read and understand this manual. If you do not understand any part of the manual, contact Baumalight at 866-820-7603.

Always wear face and/or eye protection, safety shoes, and other protective equipment appropriate for the job.

Do not make unauthorized modifications. Contact Baumalight at 866-820-7603 before you weld, cut/drill holes, or make any other modifications.

Always use Baumalight replacement parts.

### **WARNING**

Moving parts can crush and cut.

Keep clear of moving components.

Follow lockout procedure before servicing.

### **A** WARNING

Crushing hazard.

Before performing inspections, service or maintenance:

- Park machine on firm, level surface.
- Engage parking brake.
- Turn engine off and remove key.
- Place "Do Not Operate" tag on control panel.

### **WARNING**

Entanglement hazard.

Keep clear of moving components.

Wear proper protective equipment appropriate for the job.

### **A** WARNING

Burn hazard.

Hot and high pressure hydraulic oil.

Allow oil to cool before servicing.

### **WARNING**

Drilling, sawing, sanding or machining wood products can expose you to wood dust, a substance known to the State of California to cause cancer.

Avoid inhaling wood dust or use a dust mask or other safeguards for personal protection. For more information go to www.P65Warnings.ca.gov/wood.

### **WARNING**

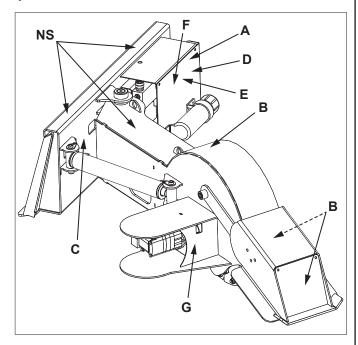
Wear an approved dust mask or respirator.

Follow local, state and federal regulations.

### **3 SAFETY SIGNS**

The two and four panel safety decals are pictorial and have a yellow background. The panel with a triangle indicates the potential hazard. The panel without a triangle indicates how to avoid the hazard.

If any of the decals are missing, are damaged, or if you do not understand the decal, please contact your dealer.



Dashes lines indicate items hidden from view unless cover is opened.

NS - Non-slip pads.

A. D005262 WARNING - P65 warning information.

WARNING: This product can expose you to chemicals including 1,3-Butadiene and lead, which are known to the state of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

B. D005223 WARNING - Rotating blade hazard. Keep back 75m while machine is operating. Wait for blade to stop before approaching machine.



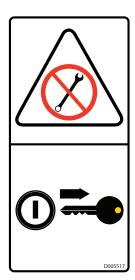
C. D005127 WARNING - Pinch point / crush hazard. Do not reach into machine. Keep away from machine.



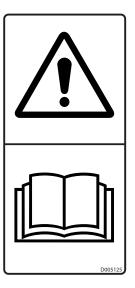
D. D005126 WARNING - Pressurized fluid hazard. Keep away from machine.



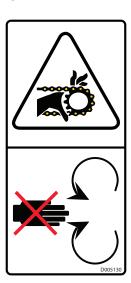
E. D005517 ▲ WARNING - Remove key before servicing.



F. D005125 ▲ WARNING - Read and understand safety signs on the machine and operating instructions in this manual before operating machine.



G. D005130 WARNING - Rotating parts hazard. Do not reach into machine. Keep away from machine.



### 4 Assembly

## **4.1 Remove Shipping Dunnage And Parts**

### **WARNING**

Approximate weight of grinder is:

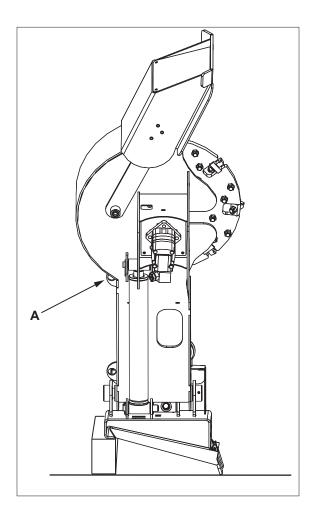
- \$24 852 lbs (386 kg)
- S28 995 lbs (451 kg)

Stump Grinder is top heavy when attached to pallet. Move with caution.

Do not position feet around or under pallet.

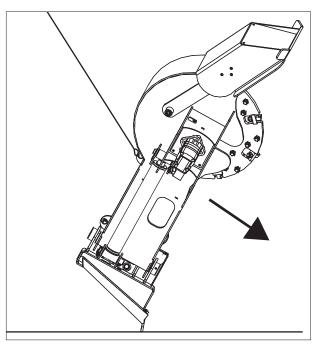
To prevent injury from accidental lowering of grinder, attach an adequate lifting device to lifting eye on stump grinder.

- 1. Remove crate material from pallet.
- 2. Attach an adequate lifting device to lifting eye (A) on stump grinder.
- 3. Remove all shipping bands, wires and loose parts from around stump grinder.



# **4.2 Remove Stump Grinder From Pallet**

- 1. Slowly lift the stump grinder off the pallet. Remove pallet from work area.
- 2. Lower stump grinder so that the rotor touches the ground.
- 3. Stabilize the machine and continue lowering the rest of the way down.
- 4. Remove lifting device.



### **5 OPERATION**

#### 5.1 Preparation For Use

### A

#### **WARNING**

Drilling, sawing, sanding or machining wood products can expose you to wood dust, a substance known to the State of California to cause cancer.

Avoid inhaling wood dust or use a dust mask or other safeguards for personal protection. For more information go to www.P65Warnings.ca.gov/wood.

### A

#### WARNING

Wear an approved dust mask or respirator.

Follow local, state and federal regulations.

Although the Stump Grinder has been carefully inspected and checked prior to shipment from manufacturer, it is recommended that the unit be thoroughly inspected.

Check all bolts for tightness and remove all shipping tags, bags, skids, and blocking. Check swing frame to ensure that it is free from obstruction and can operate smoothly without binding.

Remove any masking materials affixed during painting. Inspect the skidsteer and any accessory equipment to verify that nameplates and all safety warning, caution signs and decals provided with the equipment are in place and clearly visible.

Verify the quick-tach handles are locked.

Visually inspect the unit before each start up. Check for loose or missing parts and any damage that may have occurred during moving or shipping.

Review all skidsteer pre-start instructions, and verify that all recommended steps and procedures

have been followed. Never bar over the rotor, This could cause damage and result in personal injury or equipment damage.

**Note:** Always keep the weight of the machine in mind. Never position body in line of impact.

#### 5.2 Hydraulic Connections

### A

#### **WARNING**

Pressurized fluids can penetrate the skin.

Disconnect and lock out power source before disconnecting and/or connecting hydraulic hoses.

You must connect the pressure, return and case drain (if equipped) hoses from stump grinder to skidsteer hydraulic couplers.

The stump grinder is not equipped with hydraulic couplers. Install couplers and connect your skidsteer pressure, return and case drain (if equipped) hoses to the stump grinder hoses. Install your couplers to the hoses listed in the table below.

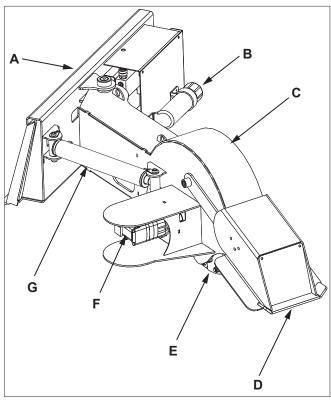
Fitting Size	Hose Description	Qty.
3/4 JIC FM	Pressure & Return	2
3/8 JIC FM	Case Drain	1

Identify the pressure port hose and connect your hoses to the cutter hoses.

### **5.3 Pre-Operation Check List**

Check-mark	Check these items:	Frequency
	Verify the quick attach handles are locked.	Each operation.
	Check the hydraulic fluid level to verify there is sufficient fluid in the system.	Each operation.
	Check hydraulic lines for breaks and punctures.	Each operation.
	Verify hydraulic lines are plugged in securely.	Each operation.
	Verify hydraulic lines are tied well away and cannot bind or be pinched.	Each operation.
	Check the cross bolts that secure the six pivot pins.	Each operation.
	Check swing control function.	Each operation.
	Verify the cutting tips on the rotor are tight.	Every 4 hours.
	Grease two pins on the deflector shield.	Every 6 hours.
	Grease all six pivot pins.	Every 10 hours.

#### **5.4 Machine Components**



- A. Quick Attach
- B. Manual Storage Tube
- C. Rotor Shield
- D. Debris Shield
- E. Rotor
- F. Hydraulic Motor
- G. Swing Cylinder

#### 5.5 Attaching Stump Grinder

### **WARNING**

Prevent injury.

Never position yourself between skidsteer and stump grinder.

Only experienced and properly trained operator's should operate the skidsteer and stump grinder.

- 1. Read ALL Safety instructions.
- 2. Check for loose teeth or any other loose parts
- 3. Verify hydraulic lines are clear of pinch areas.
- 4. Verify there is sufficient visibility and maneuverability to move up to the stump grinder.
- 5. Verify pins are secure in the correct position.
- 6. Attach skidsteer to stump grinder. See skidsteer Operator's Manual.
- Connect pressure, return and case drain (if equipped) hydraulic hoses to the skidsteer couplers. See skidsteer Operator's Manual. Verify hydraulic hoses are clear of pinch areas.
- 8. Connect electrical connector.
- 9. Move to a clear open area to test functions.

### **WARNING**

Pressurized fluids can penetrate the skin.

Hydraulic hoses can fail due to physical damage, age, kinks and exposure. Check hoses regularly. Replace damaged hoses.

Use body and face protection while searching for leaks. A tiny, almost invisible leak can penetrate the skin, thereby requiring immediate medical attention.

Use wood or cardboard to detect hydraulic leaks, never use your hands.

#### **5.6 Detaching Stump Grinder**

### A

#### WARNING

Prevent serious injury or death caused by unexpected movement:

- 1. Park skidsteer on a level surface.
- 2. Engage skidsteer park brake.
- 3. Disengage hydraulic flow.
- 4. Shut off engine and remove key.
- 1. Park skidsteer on a level surface.
- 2. Lower grinder to the ground.
- 3. Shut off engine and remove key.
- 4. Relieve hydraulic pressure. See your skidsteer Operator's Manual.
- 5. Disconnect hydraulic hoses.
- 6. Disconnect swing control.
- 7. Disconnect skidsteer from stump grinder. See skidsteer Operator's Manual.

#### 5.7 Transporting

### **WARNING**

To prevent bodily injury from rotating rotor, be sure to disengage power before transporting grinder.

- 1. Verify all reflectors and Slow Moving Vehicle (SMV) sign are visible.
- 2. Raise stump grinder to transport position.
- 3. Center the grinder directly in front of the skidsteer for greater stability.
- 4. Verify grinder power is disengaged.
- 5. Travel at a reasonable and safe speed.

#### 5.8 Carbide Teeth Break-In

During the first few hours of use, avoid hitting stones as much as possible to allow the carbide teeth to wear slightly. This can be done by keeping the rotor above ground level.

New carbide tips are razor sharp and can chip and shatter easily when they hit hard objects. Once the razor sharpness has worn away, the tips do not chip as easily. Observing these precautions will extend the life of the carbide teeth and reduce operating expenses.

#### **5.9 First Time User Tips**

### **WARNING**

Always turn off the skidsteer and disengage hydraulic flow before getting off the seat and approaching the rotor.

### **WARNING**

Drilling, sawing, sanding or machining wood products can expose you to wood dust, a substance known to the State of California to cause cancer.

Avoid inhaling wood dust or use a dust mask or other safeguards for personal protection. For more information go to www.P65Warnings.ca.gov/wood.

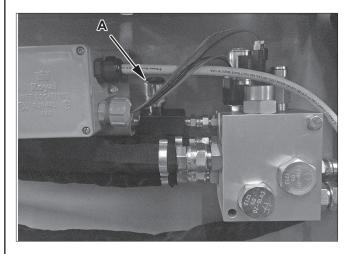
### **WARNING**

Wear an approved dust mask or respirator.

Follow local, state and federal regulations.

Before you begin, make sure the skidsteer is turned off and hydraulic flow is disengaged.

Remove cover to access electric/hydraulic valve. Flow control (A) adjusts the swing speed (cylinder movement). Turn knob (A) clockwise to slow the swing speed. The swing speed (cylinder movement) should be slow for a new operator and can be adjusted with experience. Install access cover.



Stand to the side of the stump grinder and observe the center point on the bottom of the rotor. Now sit on the skidsteer seat and observe the center point again. This point will appear different depending on where you are positioned. This can be very deceiving! Familiarize yourself with the view of the stump grinder from the skidsteer seat.

Test all operating functions in an open area with the skidsteer at idle speed to get a feel for the controls. Take your time.

Reference the cutting chart on baumalight.com to get an approximate time to grind stumps.

Start with a small stump. Make the first pass then disengage hydraulic flow and get off the skidsteer to see how much you have removed.

Get off the skidsteer after each pass to check the progress. The rotor is shielded from view when sitting on the skidsteer seat so it is difficult to accurately determine the progress. The ability to judge the positioning improves with practice. Do not expect to get the first stump done quickly.

#### 5.10 Field Operation

### **MARNING**

Prevent serious injury or death caused by unexpected movement:

- 1. Park skidsteer on a level surface.
- 2. Engage skidsteer park brake.
- 3. Disengage hydraulic flow.
- 4. Shut off engine and remove key.

### **WARNING**

Never operate skidsteer when other people are in the vicinity.

Do not allow riders on skidsteer.

### WARNING

Never operate stump grinder when other people are in the vicinity. Debris can be thrown several feet from cutting area. Keep all shields in place.

#### **WARNING**

Drilling, sawing, sanding or machining wood products can expose you to wood dust, a substance known to the State of California to cause cancer.

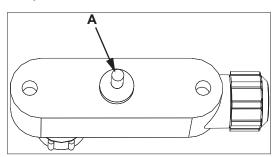
Avoid inhaling wood dust or use a dust mask or other safeguards for personal protection. For more information go to www.P65Warnings.ca.gov/wood.

### **A** WARNING

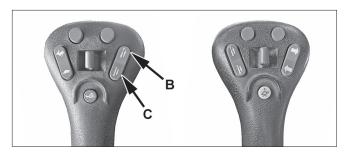
Wear an approved dust mask or respirator.

Follow local, state and federal regulations.

- 1. Attach stump grinder to skidsteer. See Attaching/Detaching in this section.
- If stump is on a grade, position skidsteer in low area. This will position stump grinder in high area for a greater advantage of weight for stable cutting.
- 3. Move over stump so rotor torques downward pushing frame up to avoid binding.
- Engage rotor and slowly lower it in a controlled manor to desired cutting depth. Always lower rotor beside stump, never try cutting down, always cut from the side.
- If Equipped With Baumalight Controller: Move sweep control switch (A) to move rotor into the stump.



If Equipped With Greentronics Controller And Using A Bobcat Skidsteer: Press buttons (B) or (C) to control the extension and retraction of the swing cylinder. Contact Greentronics at (519-669-4698) for support.



- 6. If rotor stalls, stop motion and retract sweep slightly.
- 7. After a complete pass, move sweep control switch to retract sweep and lower rotor to desired position for next pass.

Continue the passes in this manor until stump is completely removed.

#### **WARNING**

Always turn off the skidsteer before getting off the seat and approaching the rotor.

- 8. Disengage skidsteer hydraulic flow. Shut off engine and remove key.
- Get off the seat and check the position of the stump grinder to the stump. Verify the grinder is positioned at the edge of the stump that is closest to the skidsteer.

#### **WARNING**

Raising the deflector guard can allow debris to travel a long distance. Be aware of your surroundings.

**Note:** If you are working close to a fence or building, the deflector guard, that directs debris, can be flipped up.

- 10. Get back on the skidsteer and turn it on. Engage hydraulic flow.
- 11. Using the skidsteer lift and swing control to direct the stump grinder, make the first pass across the front edge of the stump, moving the rotor from right to left in 3-6 in. (76-152 mm) passes. The size of the pass will depend on the hydraulic flow and hydraulic pressure of the skidsteer. Return the grinder to the far right after each pass.
- 12. Continue to take passes across the front edge of the stump (end away from skidsteer), taking 3-6 in. (76-152 mm) on each pass.
- 13. When ground level is reached, continue to grind 3-6 in. (76-152 mm) below the surface to the bottom of the stump where the roots branch out.
- 14. Lift the stump grinder and swing it to the far right. Back the skidsteer up slightly to position the stump grinder beside the new front edge of the stump.
- 15. Make multiple passes over the front edge of the stump, taking 3-6 in. (76-152 mm) on each pass.
- 16. Reposition the skidsteer and stump grinder as needed until the entire stump has been removed to below ground level.
- 17. Follow the roots, taking as much of the larger surface roots as possible. If these are not removed they can, over time, protrude from the ground in areas where there is a heavy freeze/ thaw cycle.
- 18. Throttle down the skidsteer to an idle.

- 19. Disengage skidsteer hydraulic flow.
- 20. Shut off engine and remove key.

### **WARNING**

Never approach stump grinder before rotor has come to a complete stop.

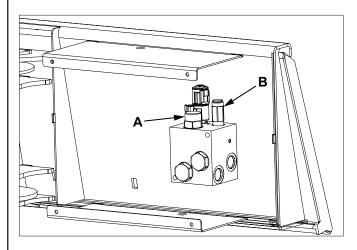
#### **5.11 Pressure Relief Adjustment**

### **WARNING**

Prevent serious injury or death caused by unexpected movement:

- 1. Park on a level surface.
- 2. Lower tree saw the to ground.
- 3. Engage parking brake.
- 4. Shut off engine and remove key.
- 1. Park on a level surface.
- 2. Lower tree saw to the ground.
- 3. Engage parking brake, shut off engine and remove key.
- (A) Flow Adjust Adjusting the flow determines how much oil is sent to the swing cylinder and cutting wheel. The more oil that is sent to the rotor will result in the swing cylinder moving slower. If more oil is sent to the swing cylinder, rotor speed will decrease. Typical adjustment is 1/2 turn out from closed position. To adjust, hold hex screw with hex wrench and loosen lock nut. Turn hex screw and hold in position while tightening lock nut. Test operation and adjust again if desired.
- (B) Pressure relief must be set lower than machine relief. 1/4 turn out from closed position is approximately 3000 psi (207 bar). To adjust, hold hex screw with hex wrench and loosen lock nut. Turn hex screw in to increase pressure, or out to decrease pressure. Turn hex screw 1/4 turn increments until desired pressure is achieved. Hold hex screw while tightening lock nut.

Image is shown with valve cover removed for adjustments. Do not operate with valve cover removed.



# 6 SERVICE AND MAINTENANCE

### **A** DANGER

Support grinder frame with safety stands to prevent accidental lowering. Do not position stands under rotor because it can rotate.

Never enter area under grinder.

Support rotor deflector guard, so shield does not accidentally fall.

#### **WARNING**

Pressurized fluids can penetrate the skin.

Hydraulic hoses can fail due to physical damage, age, kinks and exposure. Check hoses regularly. Replace damaged hoses.

Use body and face protection while searching for leaks. A tiny, almost invisible leak can penetrate the skin, thereby requiring immediate medical attention.

Use wood or cardboard to detect hydraulic leaks, never use your hands.

Prevent the hazard by relieving pressure (See skidsteer Operator's Manual.) before connecting or disconnecting hydraulic lines. Verify all connections are tight before applying pressure.

Protect hands and body from high pressure fluids. If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be surgically removed by a professional physician within a few hours or serious infection may result.

### **WARNING**

Prevent serious injury or death caused by unexpected movement:

- 1. Park skidsteer on a level surface.
- 2. Engage skidsteer park brake.
- 3. Disengage hydraulic flow.
- 4. Shut off engine and remove key.

### **WARNING**

Drilling, sawing, sanding or machining wood products can expose you to wood dust, a substance known to the State of California to cause cancer.

Avoid inhaling wood dust or use a dust mask or other safeguards for personal protection. For more information go to www.P65Warnings.ca.gov/wood.

#### **WARNING**

Wear an approved dust mask or respirator.

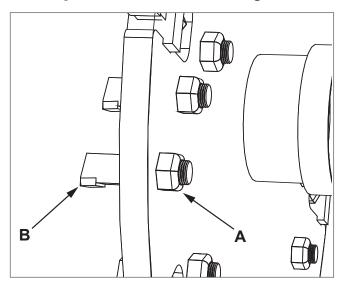
Follow local, state and federal regulations.

	Service And Maintenance Chart	
General Inspection	Inspect the unit for any buildup of contamination (dirt, stones, etc.).	Daily
Hydraulics	Check hydraulic hoses and fittings for leaks.	Daily
Cutting Teeth	Check and replace one at a time as necessary. The teeth on the outer edge of the wheel wear faster and are more prone to chipping. With daily use, expect to replace 5 to 10 teeth per week (See Replace Cutting Teeth in this section.)	Every 2 hours.
Deflector Shield Pins	Lubricate pins so deflector can move freely.	Every 6 hours.
Pivot Pins	Lubricate nine (6) pivot pins.	Every 10 hours.
Rotor Retaining Nut	Tighten to 130-140 lb-ft. (176-190 Nm) of torque.	Only if rotor is replaced.

#### **6.1 Replace Cutting Teeth**

- 1. Park skidsteer and grinder on a level surface.
- 2. Lower grinder to the ground.
- 3. Support grinder frame with safety stands.
- 4. Shut off engine and remove key.
- 5. Inspect cutting teeth for damage. Replace individual teeth as needed.
- 6. Remove lock nut (A) and cutting tooth (B).
- 7. Install replacement tooth and lock nut. Tighten lock nut (A) to 150 lb-ft (204 Nm) of torque.

**Note:** Parts breakdown can be found on Baumalight's website. www.baumalight.com



#### 6.2 Replace Hydraulic Hoses

- 1. Park skidsteer and grinder on a level surface.
- 2. Lower grinder to the ground.
- 3. Shut off engine and remove key.
- 4. Relieve hydraulic pressure. See your skidsteer Operator's Manual.
- 5. Disconnect hydraulic hoses from skidsteer.



Fall hazard.

Spilled fluids may be slippery. Clean up spilled fluid immediately.

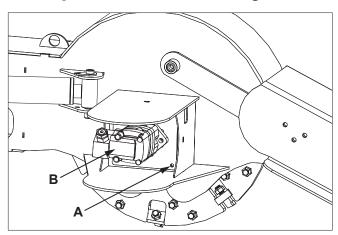
- 6. Drain hydraulic hose at its lowest point. Drain oil into a suitable container. Clean any spilled fluids immediately.
- 7. Remove hose from cylinder.
- 8. Remove quick coupler and/or adapter from hose.
- 9. Install replacement hose in reverse order of removal.

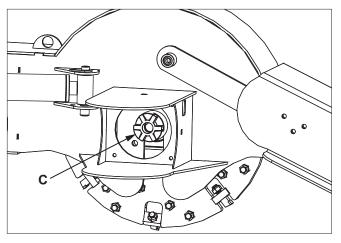
**Note:** Parts breakdown can be found on Baumalight's website. www.baumalight.com

#### **6.3 Replace Spider (If Equipped)**

- 1. Park skidsteer and grinder on a level surface.
- 2. Lower grinder to the ground.
- 3. Support grinder frame with safety stands.
- 4. Shut off engine and remove key.
- 5. Remove four cap screws (A) and remove hydraulic motor assembly (B).
- 6. Remove and replace spider (C).
- 7. Install motor assembly in reverse order of removal.

**Note:** Parts breakdown can be found on Baumalight's website. www.baumalight.com



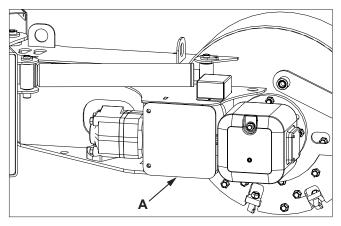


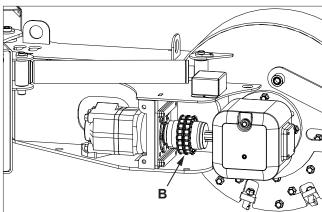
# 6.4 Replace Coupler Chain (If Equipped)

- 1. Park skidsteer and grinder on a level surface.
- 2. Lower grinder to the ground.
- 3. Support grinder frame with safety stands.
- 4. Shut off engine and remove key.
- 5. Remove cover (A).
- 6. Remove master link from coupler chain (B).
- 7. Remove coupler chain (B).

**Note:** Coupler hub on rotor shaft and motor shaft do not have setscrews. Setscrews are not needed in this application.

8. Install coupler chain (B), master link and cover (A).

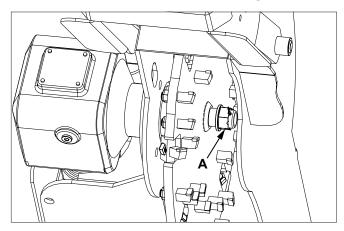




#### 6.5 Replace Rotor

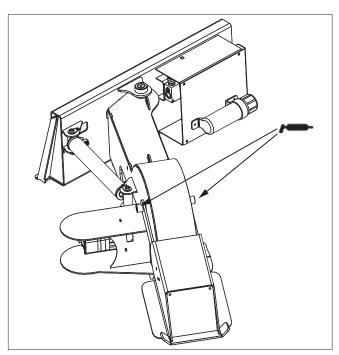
- 1. Park skidsteer and grinder on a level surface.
- 2. Lower grinder to the ground.
- 3. Support grinder frame with safety stands.
- 4. Shut off engine and remove key.
- 5. Remove cotter pin and castle nut (A).
- 6. Remove rotor.
- 7. Install rotor and castle nut (A). Tighten castle nut (A) to 130-140 lb-ft. (176-190 Nm) of torque.
- 8. Install cotter pin.
- 9. Install cutting teeth on new rotor.

**Note:** Parts breakdown can be found on Baumalight's website. www.baumalight.com



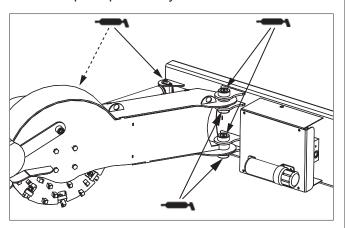
#### 6.6 Every 6 Hours

Lubricate deflector shield pivot points every 6 hours of use.



### 6.7 Every 10 Hours

Lubricate pivot pins every 10 hours of use.



### **7 TROUBLESHOOTING**

PROBLEM	CHECK	SOLUTION
Rotor does not spin.	Rotor jammed.	Remove material from rotor.
	Low oil.	Check oil level in skidsteer. Add if necessary.
	Not enough oil flow.	Check flow control on skidsteer. See your dealer.
	Determine if issue is the rotor or motor.	Disconnect chain coupler or spider between motor and gearbox. Check motor and rotor for free movement.
Rotor does not have much power.	Low oil.	Check oil level in skidsteer. Add if necessary.
	Oil filter plugged.	Replace skidsteer oil filter.
	Relief valve not set properly.	Set relief valve. Pressure should be between 2,500 and 3,500 psi.
	Shaft keyway sheared off.	Replace keyway.
	Low oil flow and pressure.	Check flow control on skidsteer. See your dealer.
	Check to see if rotor can be turn backward with hoses disconnected.	If rotor can be turned, anti-cavitation valves (A) may be stuck open.  Remove and clean anticavitation valves.
No movement on cylinders.	No oil flow.	Check for plugged or reversed hydraulic lines.
	Fuse blown on swing control.	Replace fuse.

### 8 STORAGE

#### 8.1 Storing Stump Grinder

- 1. Store stump grinder in a dry place.
- 2. Clean grinder thoroughly. Dirt and wood chips will draw moisture and cause rust.
- 3. Lubricate machine. (See Service and Maintenance section.)
- 4. Check condition of cutting teeth. Replace as necessary. (See Service and Maintenance section.)
- 5. Check for loose or missing hardware.
- 6. Paint parts as necessary.

#### 8.2 Removing From Storage

- 1. Review Operator's manual and check adjustments.
- 2. Lubricate machine. (See Service and Maintenance section.)
- 3. If parts have been replaced, verify they run properly.

### **BAUMALIGHT ATTACHMENT WARRANTY**

The product is warranted to be free of defects in materials and workmanship under normal use and service, for a period of one year from the date of purchase. This warranty covers parts and labor, but does not cover misuse, negligence, dealer travel time and shipping costs to and from the dealer.

Replacement of individual parts vs. assemblies are at the discretion of the manufacturer.

Warranted replacement parts will be shipped to the customer free of charge via ground shipping. If expedited shipping requested, the customer will be charged the difference between ground shipping and the cost of expedited shipping. Damage in transit is not covered by warranty.

Baumalight products purchased new must be registered for warranty at https://baumalight.com/product/product-registration.

Warranty claims must include the original bill of sale. This warranty is extended only to the original purchaser and there is never any warranty on anything sold through auction.

This product must be operated and maintained in accordance with the Operating and Maintenance Instructions supplied with this unit.

Under no circumstances will the manufacturer be liable for any consequential damage or expense of any kind, including loss of profits. The manufacturer is under no circumstances liable for carrier unit damage of any kind. The manufacturer is not liable for the maintenance of the product. Baumalight will not cover time to diagnose and repair compatibility issues between carrier and attachment.

When receiving a shipment from the manufacturer:

- 1. Compare items received with the carriers bill of lading.
- 2. Check for damage before signing for the shipment. If damage is found, note damage on carriers bill of lading and photograph the damage.

Warranty repairs may be done by the end user if the end user is willing and capable.

If a third-party dealer performs warranty work, the credit/payment must be submitted by the dealer that sold the unit. The labor that will be allowed is listed on Baumalights website in the support section.

The Manufacturer's Liability is limited to repair of the product and/or replacement of parts and is given to the purchaser in lieu of all other remedies including incidental and consequential charges. There are no warranties, expressed or implied other than those specified herein. For the nearest Authorized Service Center call the manufacturer.

The allowable time for dealers to perform some repairs can be found on our website in the support section under Service And Instruction Videos & Support. If website does not list a time for the repair, dealer must contact the manufacturer before starting the repair to find how much time will be covered for the activity. The manufacturer will only cover up to 1 hour to diagnose and troubleshoot an issue, regardless of the suggestions recommended by the manufacturer to check and verify an issue.

Dealer time spent contacting Bathe dealer.	umalight for questions/diagnosis to be charged toward internal training at
Model Number:	S/N:
Date of Purchase:	Owner's Name

Replacement parts sold after the equipment warranty has expired are warranted for a period of 30 days from the date of purchase. Labor, diagnosis and troubleshooting are not covered on replacement parts.

For parts, specifications and the latest machine information please visit our website.

www.baumalight.com

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