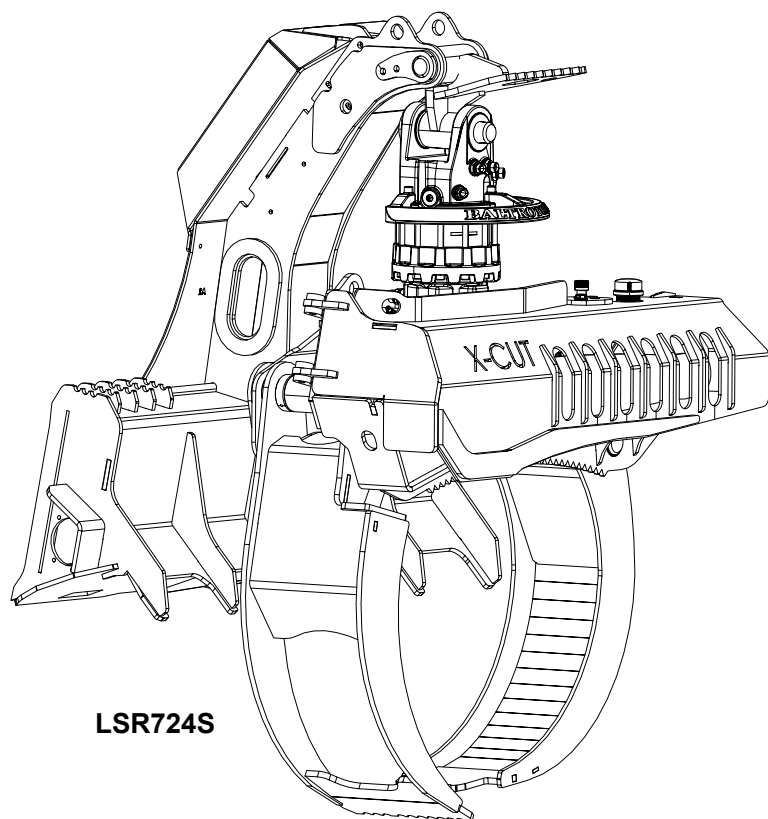
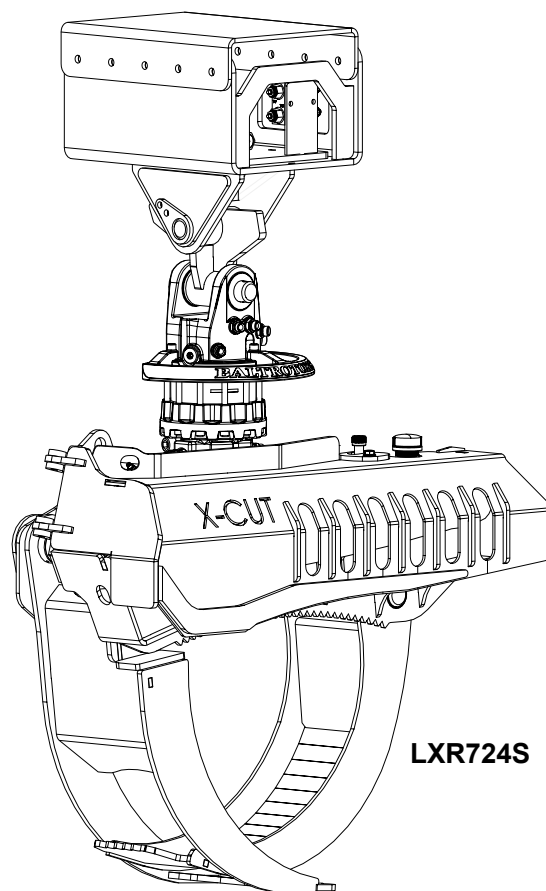




LSR724S



LXR724S

BAUMALIGHT™

LSR724S And LXR724S Grapple Saw OPERATOR'S MANUAL



**Find online at
baumalight.com/support**

[illegible]

TABLE OF CONTENTS

1 INTRODUCTION	4
1.1 Overview.....	4
1.2 Intended Use And Foreseeable Misuse	4
2 SAFETY.....	5
2.1 Safety Alert Symbol And Safety Words	5
2.2 Operational Hazards.....	5
Prepare For Emergencies	6
Replace Safety Signs	6
Do Not Allow Riders	7
Lower Operating Speed	7
Avoid Rollover	7
Avoid Loud Noise	7
Hazards From Modifying Equipment	7
Avoid High Pressure Fluids.....	7
2.3 Maintenance Hazards.....	8
Raised Grapple Saw	8
3 SAFETY SIGNS.....	10
4 OPERATION	12
4.1 Preparation For Use	12
4.2 Components.....	12
4.3 Connect To Grapple Saw	13
4.4 Transporting.....	13
4.5 Pre-Operation Check List	13
4.6 Operation.....	14
Slope Operation	14
Basic Functions	14
General Operation	14
5 SERVICE AND MAINTENANCE	16
5.1 Maintenance	16
5.2 Inspections.....	16
5.3 Lubrication	17
5.4 Hydraulics	18
5.5 Adjust Chain Tension	18
6 TROUBLESHOOTING	20
7 STORAGE	21
7.1 Storing	21
7.2 Remove From Storage	21
BAUMALIGHT ATTACHMENT WARRANTY.....	22

1 INTRODUCTION

1.1 Overview

Congratulations on your choice of a Baumalight Grapple Saw. This equipment has been designed and manufactured to meet the needs of a discriminating buyer for efficient operation.

Safe, efficient and trouble free operation of your grapple saw requires that you and anyone else who will be operating or maintaining the grapple saw, read and understand this Operator's Manual.

This manual covers the LSR724S and LXR724S Grapple Saw. 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. Contact your Baumalight dealer 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 operator's platform and facing in the direction of travel.

1.2 Intended Use And Foreseeable Misuse

The grapple saw is designed to be used by experienced operators, trained in the safe operation and hazards related to using the grapple saw and the safe use of the grapple saw 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 grapple saw.

The grapple saw is 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 grapple saw is misused.

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:

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

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

 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 death or serious injury.
Raised grapple saw could fall, resulting in death or serious injury.
Never enter the area under raised grapple saw.

 WARNING
Prevent death or serious injury.
Read and understand this manual before operating the grapple saw.
Never allow anyone near the grapple saw during operation.
Travel at a safe speed.

 WARNING
Prevent death or serious injury from moving parts.
Moving parts can cut, crush and dismember.
Do not operate without guards and shields in place.
Disconnect and lockout power source before adjusting or servicing.



WARNING

Use grapple saw only for the designed applications.

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



WARNING

An overloaded grapple saw or improperly distributed load can result in death or serious injury.

An overloaded grapple saw can cause hydraulic system to malfunction, resulting in grapple falling.

A load that is improperly distributed in the grapple saw can result in the machine tipping over when the grapple saw is raised.



WARNING

A soft and/or uneven surface may cause the machine to overturn when the grapple saw is raised.

Raise the grapple saw only if the machine is on a firm and level surface.

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 components and repair parts must include the current safety decal.

Learn how to properly operate the grapple saw. 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 your Baumalight dealer.

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 in 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 on the log grapple.
NEVER use grapple saw as a work platform.
NEVER allow passengers on the grapple saw.

Lower Operating Speed

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.
- Avoid holes, ditches and other obstructions which may cause equipment to rollover.
- Use caution when operating on slopes and do not operate on excessively steep slopes.
- Do not exceed load capacity of equipment.

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 grapple saw. 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 before connecting or disconnecting hydraulic hoses. 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.

Raised Grapple Saw



WARNING

Prevent death or serious injury.

Raised grapple saw could fall, resulting in death or serious injury.

Never enter the area under raised grapple saw.

Raised grapple saw can lower unexpectedly, resulting in death or serious injury.

NEVER enter area under raised grapple saw.

Lower grapple saw, engage carrier park brake, shut off engine and remove key before servicing.

2.3 Maintenance Hazards

Before servicing, park carrier on a firm and level surface, engage park brake, remove key 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 your Baumalight dealer.

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

Do not make unauthorized modifications. Contact your Baumalight dealer before you weld, cut/drill holes, or make any other modifications.



WARNING

Moving parts can crush and cut.

Keep clear of moving components.

Follow lockout procedure before servicing.



WARNING

Entanglement hazard.

Keep clear of moving components.

Wear proper protective equipment appropriate for the job.



WARNING

Burn hazard.

Hot and high pressure hydraulic oil.

Allow oil to cool before servicing.



WARNING

Prevent death or serious injury.

Raised grapple saw could fall, resulting in death or serious injury.

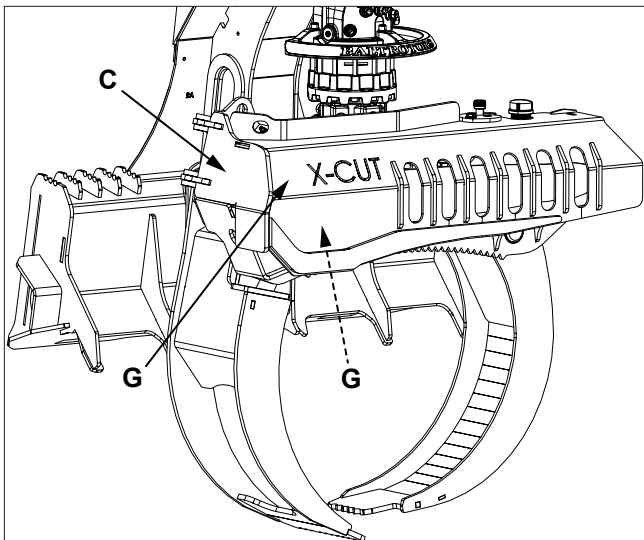
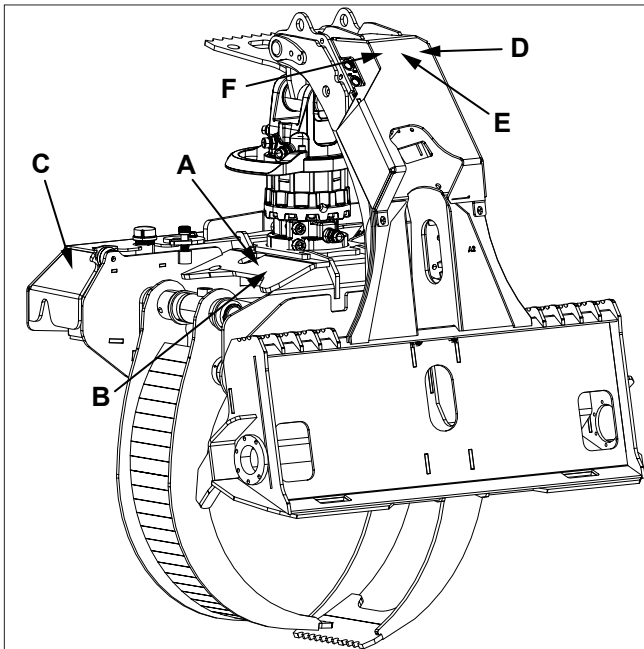
Never enter the area under raised grapple saw.

3 SAFETY SIGNS

3.1 LSR724S

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.



- A. D005262  WARNING - P65 warning information.



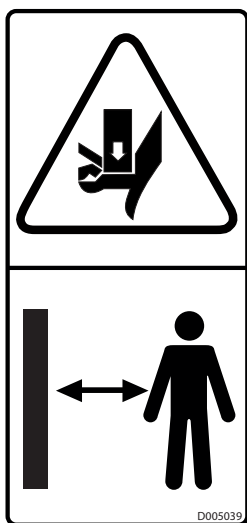
WARNING: This product can expose you to chemicals including 1,3-Butadiene and lead, which are known to the state of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

D005262

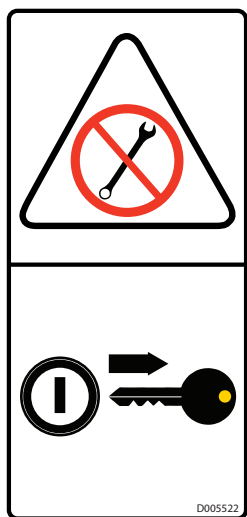
- B. D005126  WARNING - Pressurized fluid hazard. Keep away from machine.



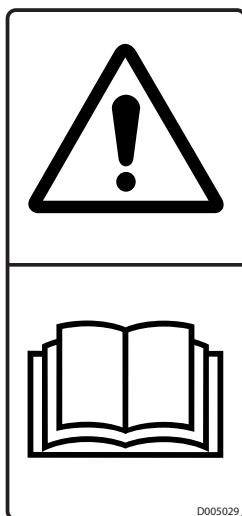
- C. D005127 **⚠** WARNING - Pinch point / crush hazard. Do not reach into machine. Keep away from machine.



- D. D005517 **⚠** WARNING- Remove key before performing service.



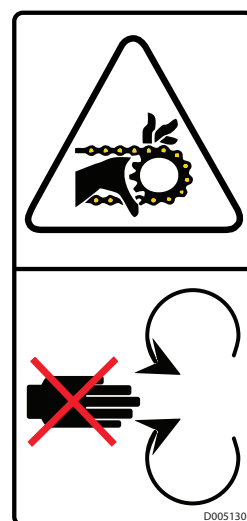
- E. D005125 **⚠** WARNING - Read and understand safety signs on the machine and operating instructions in this manual before operating machine.



- F. D005335 **⚠** WARNING - Wear personal protective equipment appropriate for the job.



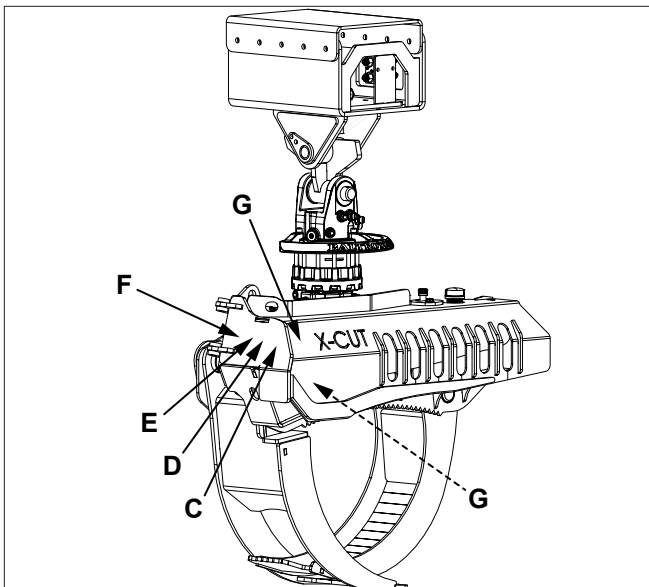
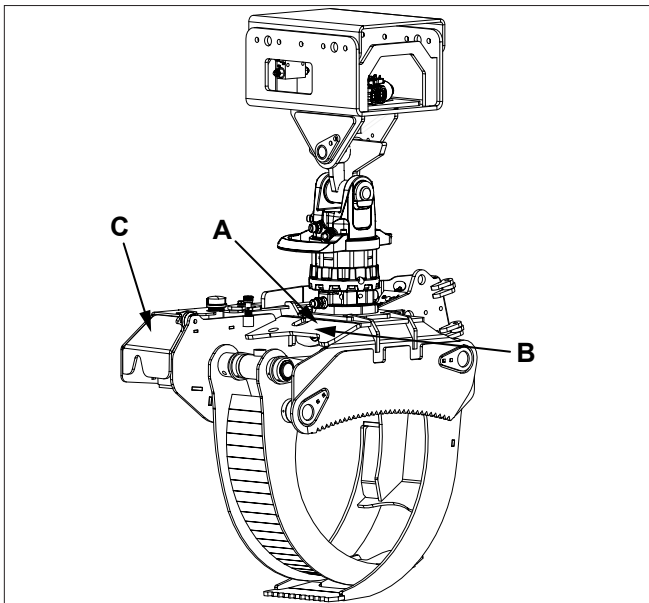
- G. D005130 **⚠** WARNING - Rotating parts hazard. Do not reach into machine. Keep away from machine. Dashed line indicates item hidden from view unless cover is opened.



3.1 LXR724S

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.



- 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.

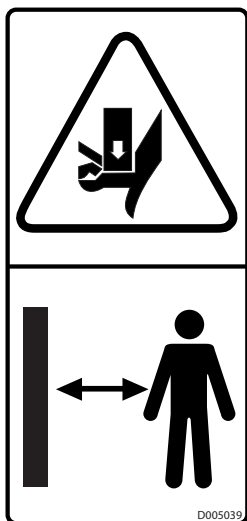
D005262

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

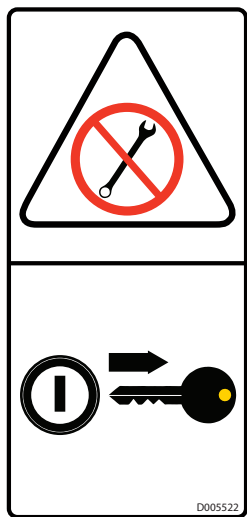


D005030

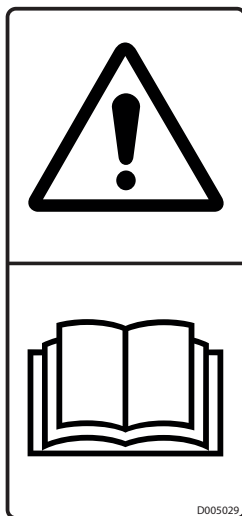
- C. D005127 **⚠** WARNING - Pinch point / crush hazard. Do not reach into machine. Keep away from machine.



- D. D005517 **⚠** WARNING- Remove key before performing service.



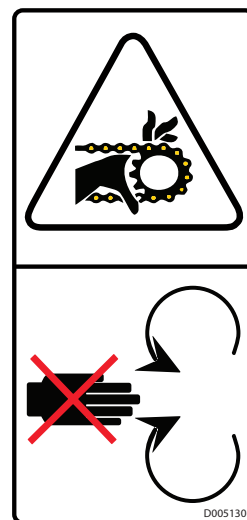
- E. D005125 **⚠** WARNING - Read and understand safety signs on the machine and operating instructions in this manual before operating machine.



- F. D005335 **⚠** WARNING - Wear personal protective equipment appropriate for the job.



- G. D005130 **⚠** WARNING - Rotating parts hazard. Do not reach into machine. Keep away from machine. Dashed line indicates item hidden from view unless cover is opened.



4 OPERATION

4.1 Preparation For Use

Operator must be properly trained and understand operator's manual before using equipment. Do not allow untrained or unqualified people to operate this equipment.

Check all bolts for tightness and remove all shipping tags, bags, skids, and blocking.

It is your responsibility to operate this equipment safely. You must be familiar with the equipment and all safety practices before use.

Inspect equipment before operating. Repair or replace any worn or damaged parts. Replace missing or damaged safety shields and safety signs.

Keep bystanders away from work area.

Always wear protective equipment appropriate for the job.

Do not operate, work on or around this machine while under the influence of alcohol, drugs or if feeling ill.

Keep clear of moving equipment at all times.

4.1.1 Hydraulic Connections



WARNING

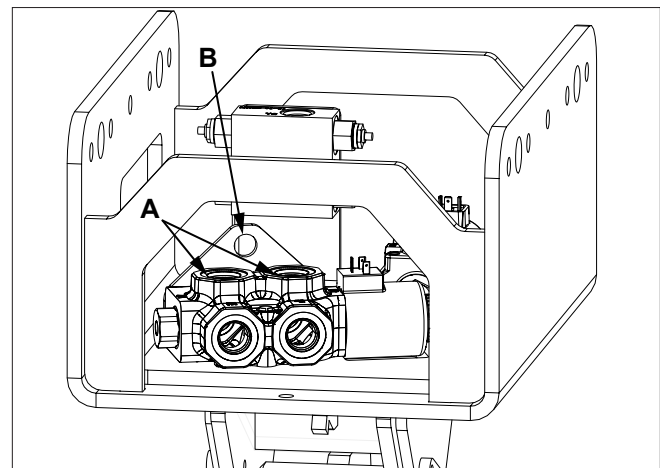
Pressurized fluids can penetrate the skin.

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

Baumalight does not provide the hydraulic hoses that connect from grapple to excavator. The installer must determine a safe routing for the hydraulic hoses to prevent damage.

Installer provided hoses are not covered by the Baumalight warranty.

1. Connect hydraulic pressure and return hoses to ports (A).
2. Connect case drain hose to connector at location (B).



3. Route hoses along boom and connect to excavator hydraulic system.

Other installed attachments may interfere with grapple operation and may need to be removed. Routing of the hoses will depend on the excavator and other installed attachments.

Baumalight does not provide these hoses and they are not covered by the Baumalight warranty.

NOTICE

Prevent equipment damage.

Route hydraulic hoses away from pinch points.

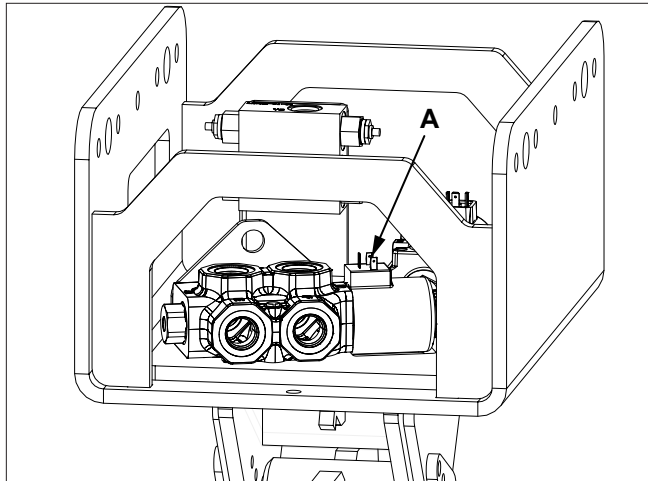
During initial startup, carefully move grapple and boom to all positions to verify hoses will not be damaged.

4.1.2 Remote Pendant

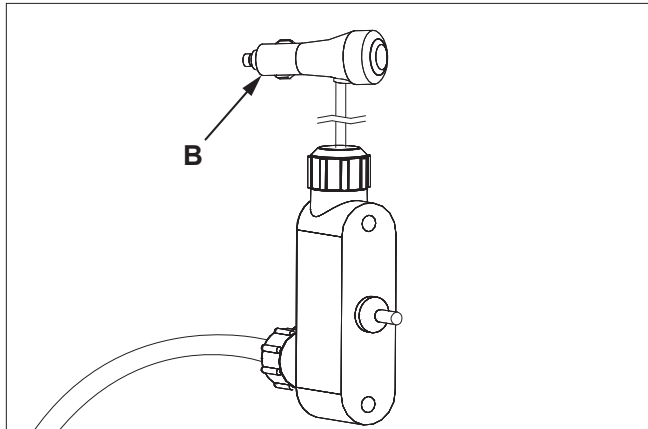
Electrical wires that run from grapple valve to remote pendant are not provided with the grapple. The installer must determine a safe routing for the electrical wires to prevent damage.

Installer provided wires are not covered by the Baumalight warranty.

1. Connect pendant harness to connector (A) on valve.



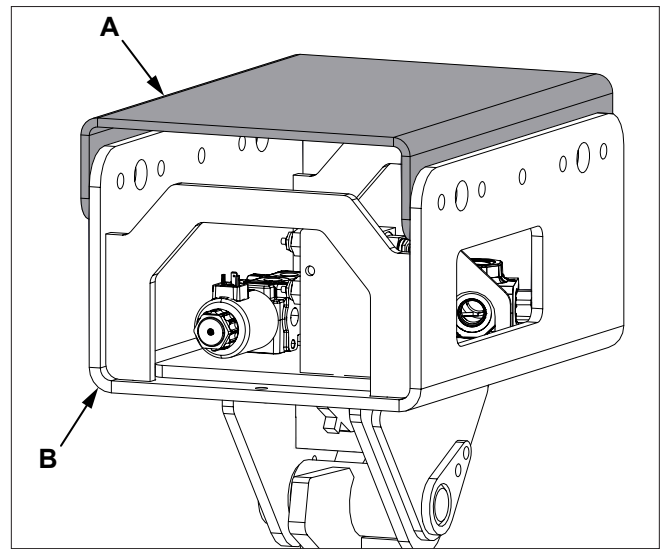
2. Connect remote pendant connector (B) to excavator 12 volt power supply.



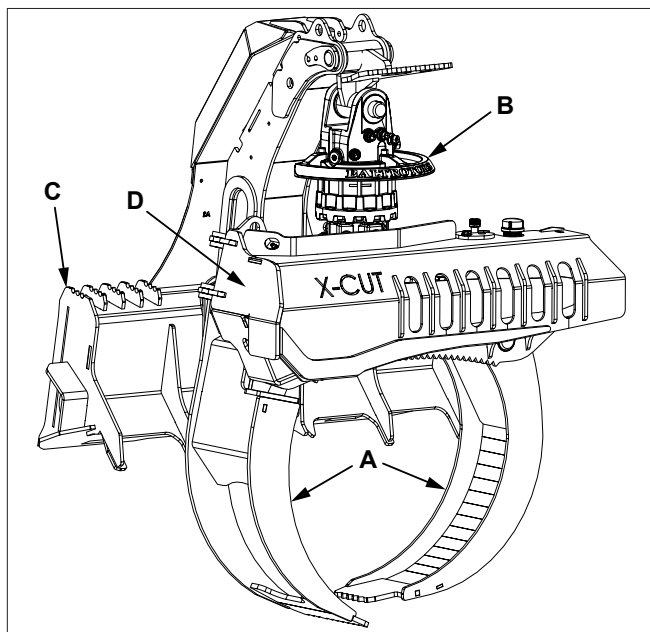
3. Move to a clear open area to test functions.

4.1.1 Excavator Adapter - LXR724S

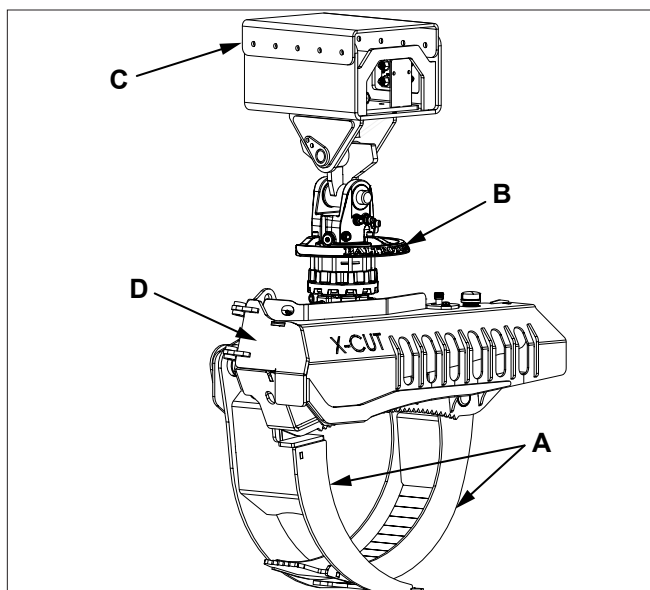
1. Install excavator adapter (A) on either side of machine mounting bracket (B) as shown.
2. Install and tighten mounting hardware. Tightening the mounting hardware will pull the flanges into place.



4.2 Components



LSR724S



LXR724S

- A. Grapple Jaws
- B. Rotation Mechanism
- C. LSR724S - Quick Attach
LXR724S - Adapter Mounting Plate
- D. Cut-Off Mechanism

4.3 Connect To Grapple Saw



WARNING

To prevent injury or machine damage put transmission in park.

Never position yourself between carrier and grapple.

Only experienced and properly trained operator's should operate the carrier and grapple saw.



WARNING

Pressurized fluids can penetrate the skin.

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

1. Verify the mount plate/ or quick attach are free of any dirt or debris and that the locking mechanism pins rotate freely. Lubricate locking mechanism if necessary.
2. Attach grapple saw to carrier. See carrier operators manual.
3. Connect hydraulic hoses and electrical connector.

4.4 Transporting

1. Verify all reflectors and Slow Moving Vehicle (SMV) sign on carrier are visible.
2. Raise grapple saw slightly off ground.
3. Verify hydraulics are disengaged.
4. Travel at a reasonable and safe speed.

4.5 Pre-Operation Check List

Verify that grapple saw is properly attached to carrier.

Verify that hydraulic hoses are properly connected.

It is operators responsibility to perform the following checks prior to operation of equipment:

- Review and understand this manual and carrier operators manual.
- Verify safety decals are installed and legible. Replace if damaged or missing.
- Verify that all hardware is tight.
- Inspect hoses and fittings for wear, damage and leaks. Replace damaged or leaking hoses before use.
- Refer to carrier operator's manual for prestarting instructions.

4.6 Operation

Slope Operation

Watch for holes, ruts, or bumps.

Do not make sudden changes in speed or direction.

If the carrier loses traction, slowly move straight down the slope. Avoid turning on slopes. If turning is necessary, turn slowly and keep the grapple saw uphill.

Do not operate near drop off or ditches.

When parking on a hillside or slope, lower grapple saw and engage carrier park brake.

Basic Functions

- Forward and reverse flow with no electric button pressed will open and close grapple.
- Press blade button then move joystick for forward flow, blade will start and lower it at the same time.
- Press blade button then move joystick for reverse flow, blade will raise (blade is not running).
- Forward and reverse flow with the rotate button pressed will rotate grapple.



WARNING

Prevent death or serious injury from moving parts.

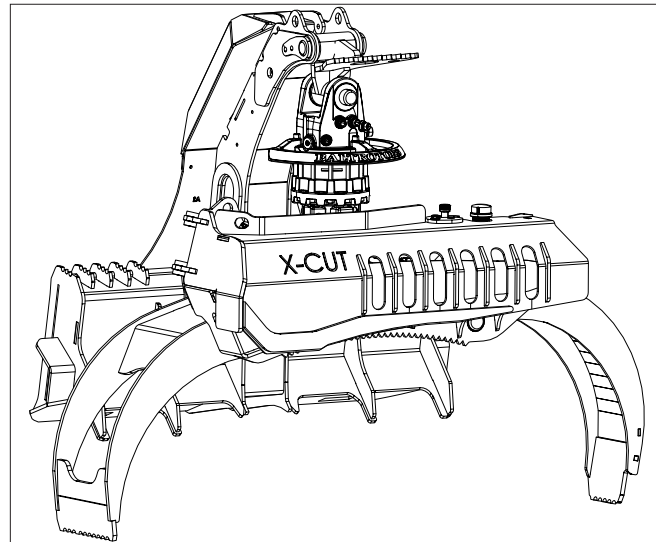
Moving parts can cut, crush and dismember.

Do not operate without guards and shields in place.

Disconnect and lockout power source before adjusting or servicing.

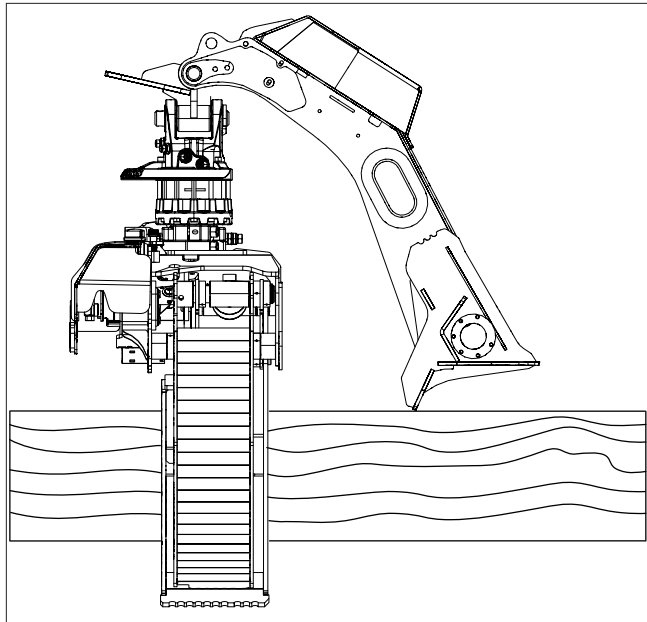
General Operation

1. Disengage park brake.
2. Operate hydraulics to open grapple jaws.

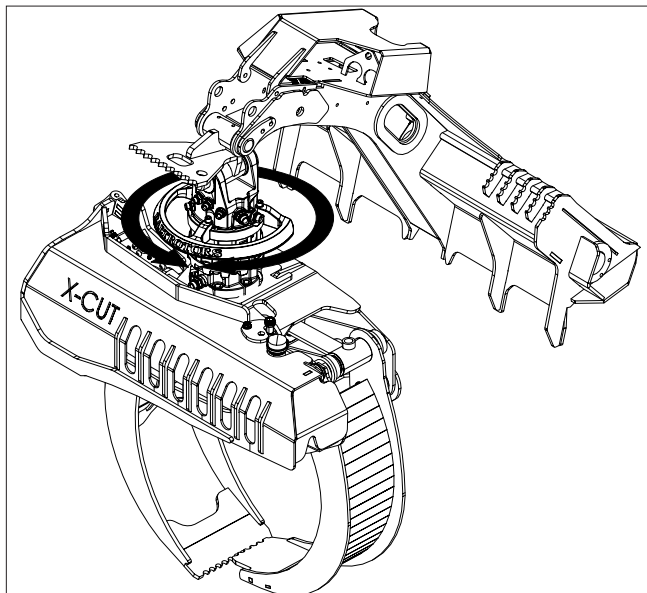


Grapple In Open Position

3. Tilt grapple forward and position over log.
4. Operate hydraulics to close grapple jaws around log.
5. LSR724S - Slightly raise grapple and tilt back so end of log is under grapple frame as shown.



The grapple can rotate a full 360°. Operate hydraulics to rotate grapple as needed.



6. Carry log close to the ground and travel at a slow speed.

WARNING

Crush hazard.

Operation on a slope can result in machine tip over.

NOTICE

Prevent equipment damage.

Run saw at slow speed when hydraulic oil is cold.

Saw can be run at normal speed once hydraulic oil is up to operating temperature.

7. Operate saw to cut log as needed.
8. Position log in desired position.
9. Tilt grapple forward and operate hydraulics to open grapple jaws to release log.

5 SERVICE AND MAINTENANCE

5.1 Maintenance



WARNING

Prevent death or serious injury.

Raised grapple saw could fall, resulting in death or serious injury.

Never enter the area under raised grapple saw.



WARNING

Prevent death or serious injury from moving parts.

Moving parts can cut, crush and dismember.

Do not operate without guards and shields in place.

Disconnect and lockout power source before adjusting or servicing.

We design many of our products using industry-standard parts that are widely available from local supply stores.

Many replacement parts such as bearings, belts, seals, touch-up paint and cutting teeth can often be found through local suppliers, not just from Baumalight.

NEED SPARE PARTS?

Get them faster at local supply stores.



5.2 Inspections

Lower grapple saw, stop carrier engine and remove key. Inspect grapple saw for damage and worn parts. Repair or replace parts as needed.

Inspect hydraulic hoses going to the rotator every four hours. Replace hoses if worn or damaged.

Inspect hydraulic hoses and fittings daily for leaks. Replace if worn or damaged.

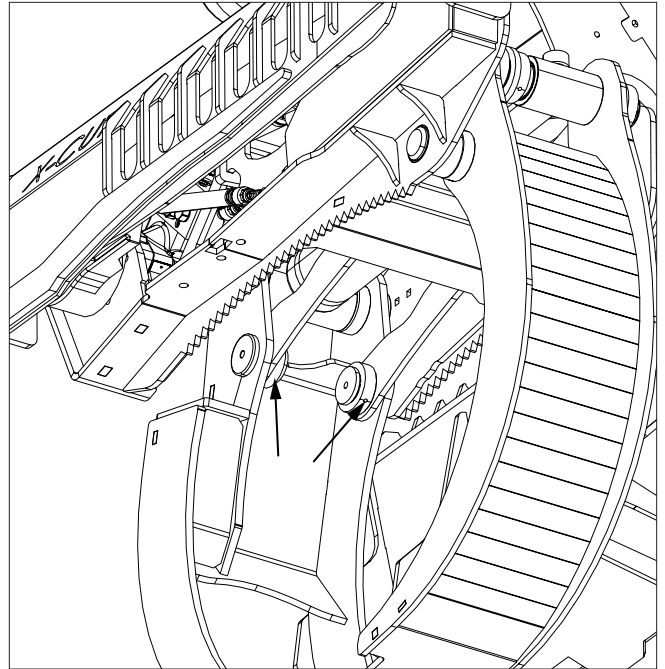
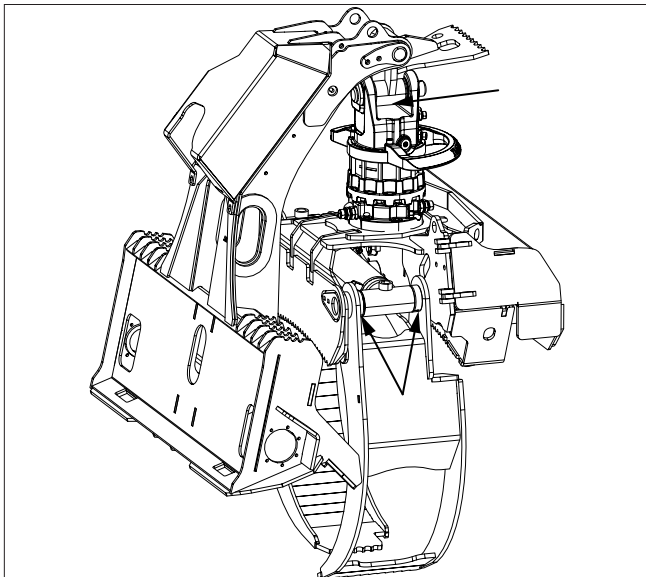
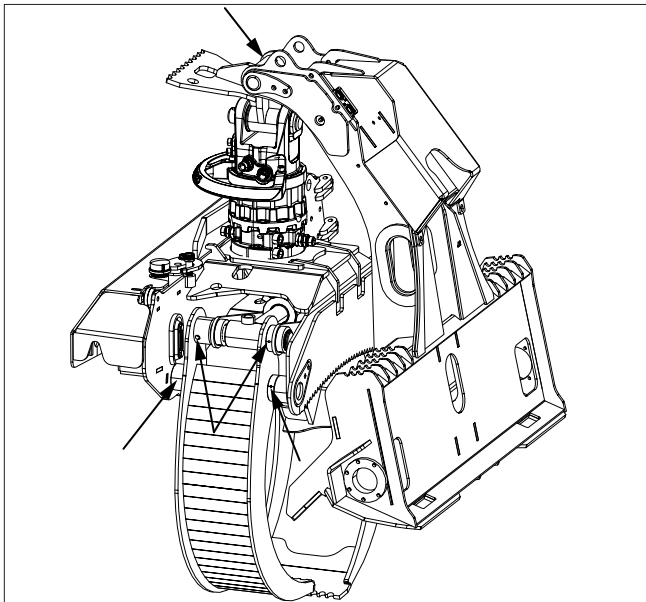
Inspect the unit for any damage. Repair or replace parts as needed.

5.3 Lubrication

Note: Lubrication points for the LSR are shown, the LXR is similar.

Lower grapple saw, stop carrier engine and remove key.

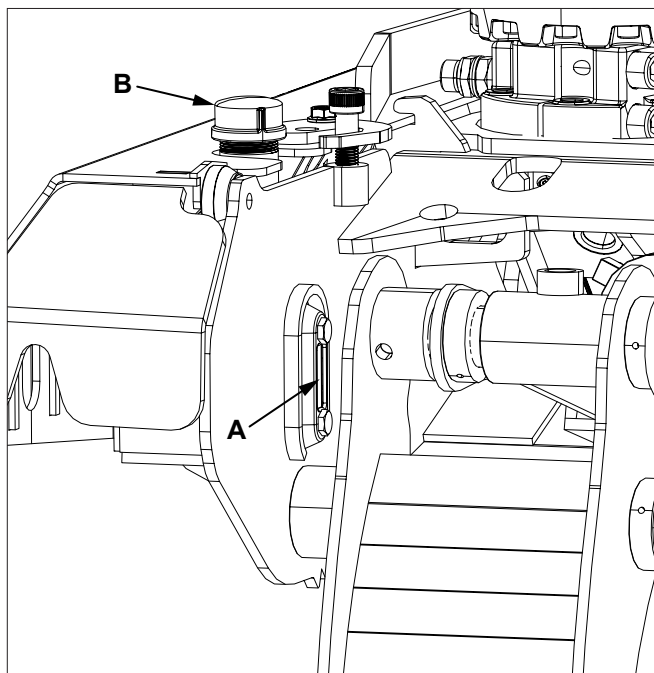
Pump grease into grease fittings.



5.4 Hydraulics

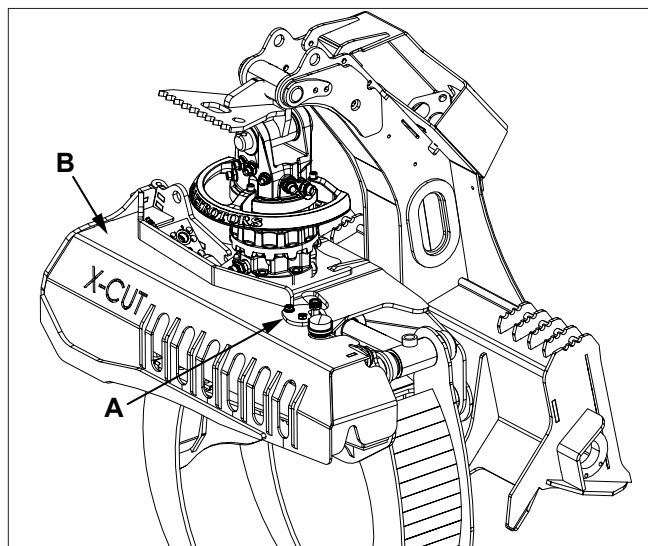
Check chain bar fluid level every 10 hours.

1. With grapple level, check fluid level in sight glass (A). If the level is low, add enough fluid to raise it to the proper level.
2. Clean the area around the filler neck of the tank.
3. Remove the cap (B) from filler neck and add chain bar fluid as needed.
4. Install the cap (B) on filler neck.

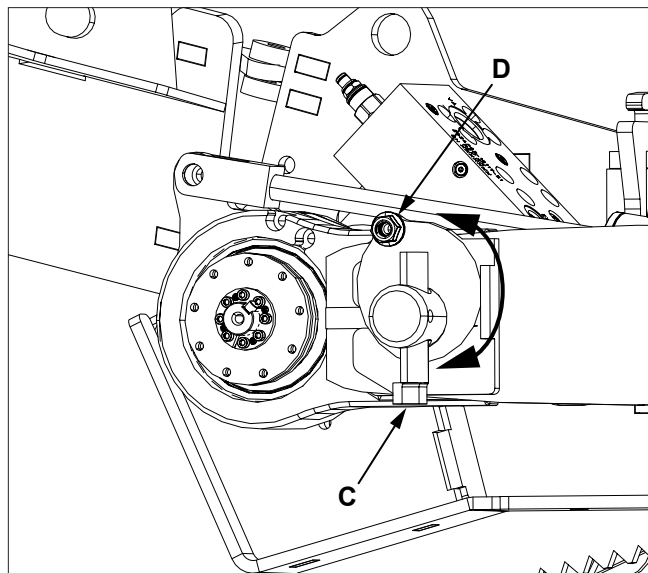


5.5 Adjust Chain Tension

1. Rotate lock plate (A) to release and open cover (B).



2. Turn eccentric pin (C) to loosen cam plate (D).
3. Turn cam plate (D) until the chain sits snugly against the bottom of the bar. Properly tensioned chains should move freely by hand but not sag.
4. Turn eccentric pin (C) to tighten cam plate (D).



5. Close and latch cover.

6 TROUBLESHOOTING

PROBLEM	CHECK	SOLUTION
Grapple does not close.	Grapple jammed.	Remove material from grapple.
	Low oil.	Check oil level in carrier. Add if necessary.
	Not enough oil flow.	Check flow control on carrier. See your dealer.
Grapple does not have much closing power.	Low oil.	Check oil level in carrier. Add if necessary.
	Oil filter plugged.	Replace carrier oil filter.
	Relief valve not set properly.	Set relief valve. Pressure should be between 2,500 and 3,500 psi.
	Not enough oil pressure.	Check hydraulic pressure on carrier. See your dealer.
Saw does not operate.	Saw jammed.	Remove material from saw.
	Low oil.	Check oil level in carrier. Add if necessary.
	Not enough oil flow.	Check flow control on carrier. See your dealer.

7 STORAGE

7.1 Storing

1. Store grapple in a dry place.
2. Clean grapple thoroughly. Dirt will draw moisture and cause rust.
3. Check for loose or missing hardware.
4. Paint parts as necessary.

7.2 Remove From Storage

1. Review Operator's Manual.
2. If parts have been replaced, verify they operate 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.

End users that purchase Baumalight products from an online dealer, or from a dealer outside of their local area should be prepared to perform their own service and warranty work. There is no labor compensation for end users who perform their own warranty work.

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 Baumalight for questions/diagnosis to be charged toward internal training at the dealer.

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

MTB MFG INC.
CORPORATE HEADQUARTERS
4575 Powell Rd.,
Wallenstein, Ontario Canada
N0B 2S0
www.baumalight.com

