



# BAUNALIGHT

# BRUSH CUTT CXC530 And CXC550 CUTTER

**OPERATOR'S MANUAL** 

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### 1 INTRODUCTION

#### 1.1 Overview

Congratulations on your choice of a Baumalight Brush Cutt to complement your brush cutting operation. This equipment has been designed and manufactured to meet the needs of a discriminating buyer for efficient brush cutting.

The unique rotor design reduces the brush to mulch. Controlling the brush cutter is done completely from the excavator providing the ability for precise control and operator comfort.

Excavator must have suitable safety equipment properly installed.

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

This manual covers the Baumalight CXC530 and CXC550 Brush Cutt. 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.

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

### 1.2 Intended Use And Foreseeable Misuse

The cutter is designed to be used by an experienced operator. Operator must be trained in the safe operation of a excavator and hazards related to using the brush cutter and the safe use of the brush cutter 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 cutter.

Care is required to ensure that the brush cutter will not come in contact with metallic objects, stones or other materials.

Brush cutters 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 cutter is misused. Misuse may also cause damage to the machine carrying the cutter.

#### 2 SAFETY

# 2.1 Safety Alert Symbol And Safety Words

You must read, understand and follow the instructions given by the excavator 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.

#### **▲** 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 death or serious injury.

Read and understand this manual before operating cutter.

Always stop engine and remove key before leaving operators seat.

Never allow anyone near the cutter during operation.

Travel at a safe speed.

#### **A** WARNING

Prevent death or serious injury from moving parts.

Moving parts can crush and dismember.

Do not operate without guards and shields in place.

Disconnect and lockout power source before adjusting or servicing.

#### **▲** WARNING

Use cutter only for the designed applications.

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

#### **WARNING**

Prevent death or serious injury.

Verify cutter is locked to excavator 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.

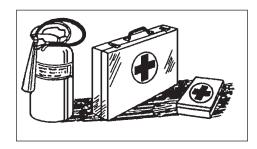
New equipment components and repair parts must include the current safety decal.

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 on cutter.
- NEVER use cutter as a work platform.
- NEVER allow passengers on cutter.

#### Lower Operating Speed

Keep cutter low and move at slow speeds on rough or uneven terrain.

Lower operating speed while operating in heavy conditions.

#### **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 cutter 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

#### A DANGER

Prevent electrocution.

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

Electrocution can occur without direct contact.

- · Check clearance before raising equipment.
- Have local utilities locate and mark under ground wires, cables, pipelines and other hazards before operation.

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

#### **Detach Cutter Safely**

Detach cutter on a firm and level surface. Be sure people, livestock and pets are clear of machinery.

#### Raised Attachment

#### **A** WARNING

Crushing hazard.

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

Never enter the area under a raised cutter.

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

NEVER enter area under a raised cutter.

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

# Hazards From Modifying Equipment

Do not make any alterations to your cutter. Altering may cause your equipment to be unsafe and may void the manufacturers' warranty.

#### **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.

### Stay Clear Of Moving Parts

#### **WARNING**

Moving parts can cause serious injury or death.

Keep shields and guards in place at all times. DO NOT operate without shields and guards.

DO NOT wear loose fitting clothing.

### Avoid Wood Dust Inhalation

#### **WARNING**

Wear an approved respirator (N95 Type as a minimum).

Follow local, state and federal regulations.

The health effects from exposure to wood dust are due to chemicals in the wood or chemical substances in the wood created by bacteria, fungi, or molds.

### 2.3 Maintenance Hazards

Before servicing, park machine on a firm and level surface, set parking brake 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.

### **3 SAFETY SIGNS**

#### **WARNING**

Moving parts can entangle and cut.

Keep clear of moving parts.

Follow lockout procedure before servicing.

#### **WARNING**

Crushing hazard.

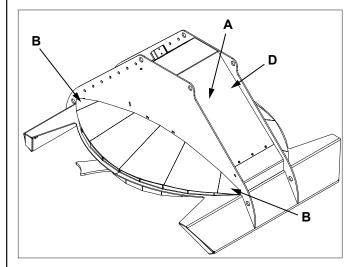
Before performing inspections, service or maintenance:

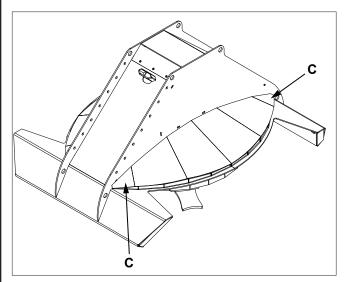
Park machine on firm, level surface.

**Engage parking brake.** 

Turn engine off and remove key.

Place "Do Not Operate" tag on control panel.





#### A. MTB-175 Safety Sign

### **A** CAUTION

- Read and understand the operator's manual before starting. Review safety instructions annually.
- Do not permit rider on the carrier or equipment. Never carry children on the machine.



- · Do not allow children to operate the equipment.
- Operate only with guards installed and in good condition.
- · Keep away from moving parts.
- Before operating, clear debris away from production area.
- · Do not operate in unsafe position.
- Turn machine off, lower machine to ground, stop engine, set park brake, remove ignition key and wait for all moving parts to stop before servicing, repairing, adjusting or unplugging.
- Support equipment securely before working beneath unit.
- Wear Personal Protective Equipment (PPE) including but not limited to hard hat, safety shoes with slip resistant soles, safety goggles or face shield and hearing protection whenever operating equipment.
- Transport with clean reflectors, SMV and working lights as required by federal, provincial and local laws.

MTB-175

#### B. MTB-176 Safety Sign



#### **ROTATING BLADES - KEEP AWAY**

To prevent serious injury or death:

- Never allow riders; especially children on carrier or cutter.
- Do not operate with bystanders in cutting area.
- Do not operate with deflectors or guards removed.
- Do not place hands or feet near intake or under shield.

MTB-176

#### C. MTB-177 Safety Sign





#### THROWN OBJECT HAZARD

To prevent serious injury or death:

- Do not operate unless all guards are installed.
- Stop blade rotation if bystanders come within several hundred feet of machine.

MTB-177

#### D. MTB-182 Safety Sign

### **A WARNING**





#### **HIGH PRESSURE FLUID HAZARD**

To prevent serious injury or death from high pressure fluid:

- Relieve pressure on system before repairing or adjusting.
- Wear proper head and eye protection when searching for leaks. Use wood or cardboard instead of hands.
- Keep all components in good repair.

MTB-182

### **4 OPERATION**

#### 4.1 Preparation For Use

Although the cutter 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.

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

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

Review all excavator pre-start instructions, and verify that all recommended steps and procedures have been followed.

## 4.2 Hydraulic Connections

#### WARNING

Pressurized fluids can penetrate the skin.

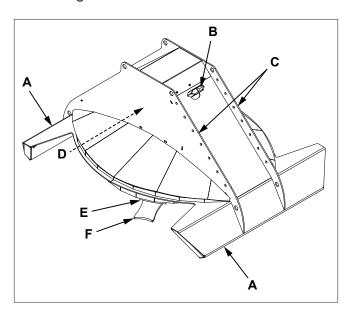
Disconnect and lock out power source before disconnecting and/or connecting hydraulic hoses.

The mulcher is equipped with short hoses that are connected to the hydraulic motor. You must connect your excavator hoses to these hoses.

Excavator hoses must be the same size as the cutter hoses. Using smaller diameter hoses will decrease hydraulic flow.

#### 4.3 Machine Components

- A. Push Bar
- B. Hydraulic Hose Holder
- C. Excavator Mounting Rails
- D. Hydraulic Motor
- E. Rotor
- F. Cutting Blade



#### 4.4 Attach Brush Cutter

#### **WARNING**

To prevent injury or machine damage put transmission in park.

Never position yourself between excavator and cutter.

Only experienced and properly trained operator may operate excavator and cutter.

- 1. Read and follow all safety instructions.
- 2. Attach excavator to cutter. See excavator operator's manual.
- 3. Connect hydraulic hoses. Verify hydraulic hoses are clear of pinch areas and moving parts.
- 4. Move to a clear open area to test functions.

#### 4.5 Transporting

- 1. Verify all reflectors and Slow Moving Vehicle (SMV) sign are visible.
- 2. Verify hydraulics to cutter are disengaged.
- 3. Raise cutter slightly off the ground.
- 4. Travel at a reasonable and safe speed.

#### 4.6 First Time User Tips

Operate all functions in a clear area low speed to get a good feel for the controls before you actually move into any brush.

Choose low density brush and move into it slowly, do not expect to get the first area done fast.

Move cutter into brush slowly until you have a better feel how much the unit can take.

Use push bar to push brush or small trees over and allow blades to contact lower portion of brush and mulch it or cut it off. The rest of the plant will be mulched as the machine moves through the working area.

Each operator must experiment to find a technique that works for them in their application.

Although it is best to mulch when it is dry, the machine works well in wet conditions. However, you must travel slower to do the same quality mulching. It may be necessary to clean the machine more frequently to prevent clogging.

#### **WARNING**

Always stop engine and remove key before leaving operators seat.

#### 4.7 Field Operation

#### **▲** WARNING

Prevent serious injury or death caused by unexpected movement:

- 1. Park on a level surface.
- 2. Lower cutter to ground.
- 3. Engage parking brake.
- 4. Shut off engine and remove key.

#### **WARNING**

Keep shields and guards in place at all times. Do not operate without shields and guards.

Do not wear loose fitting clothing.

#### **▲** WARNING

Never operate brush cutter when other people are in the vicinity.

Debris can be thrown from cutting area.

Do not allow riders.

#### WARNING

Clean machine thoroughly before service or maintenance procedures.

The health effects from exposure to wood dust are due to chemicals or chemical substances in the wood created by bacteria, fungi, or molds.

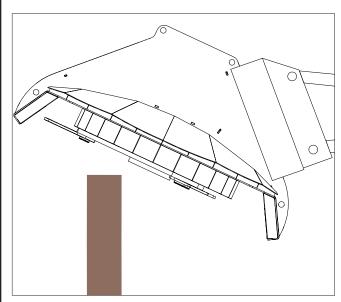
- 1. Inspect work area to verify there are no rocks, metal or other debris before cutting.
- 2. Attach cutter to excavator.

#### **▲** WARNING

Prevent serious injury or death.

Excavator must be equipped with a forestry guard to protect the operator.

- 3. Set engine speed to low idle and engage cutter.
- 4. Slowly increase engine speed to high idle.
- 5. Verify cutter is operating smoothly and move cutter into brush. When mulching standing brush, angle cutter up and away from cab. This will protect the operator and carrier from flying debris. The rotor should not be visible from the operator compartment. Attempting to mulch top-down by raising the rotor horizontally will result in the cutter throwing debris towards the operator.



Correct Angle For Standing Brush

Incorrect Raised Position For Standing Brush

#### **WARNING**

Moving parts can crush and cut.

Keep clear of moving components.

Lockout excavator before clearing jams.

- 6. If cutter stalls, stop movement, slightly raise cutter and allow rotor to regain speed. Slow movement into brush to prevent further stalling.
- 7. Rotor will continue to spin freely when hydraulic power is disengaged. The rotor can be slowed by setting rotor against the soft ground and letting the friction stop the rotor. Do not set rotor on hard ground, stone or concrete. The cutter can be set on the ground and the rotor will gradually slow to a stop.

#### 4.8 Detach Brush Cutter

#### **▲** WARNING

Prevent death or serious injury caused by unexpected movement:

- 1. Park on a level surface.
- 2. Lower cutter to ground.
- 3. Engage parking brake.
- 4. Shut off engine and remove key.
- 1. Park excavator on a level surface.
- 2. Lower cutter to the ground.
- 3. Shut off engine and remove key.
- 4. Disconnect hydraulic hoses.
- 5. Detach excavator from cutter. See excavator Operator's Manual.

# 5 SERVICE AND MAINTENANCE

#### 5.1 Daily

#### **WARNING**

Prevent serious injury or death caused by unexpected movement:

- 1. Park on a level surface.
- 2. Lower cutter to ground.
- 3. Engage parking brake.
- 4. Shut off engine and remove key.

Inspect the unit for buildup of dirt, mulch and debris. Clean out as needed.

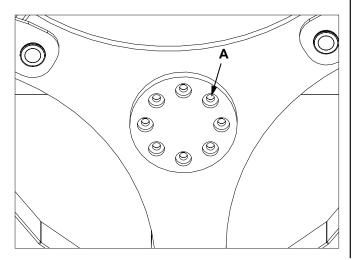
#### 5.2 First Hour Of Use

#### **WARNING**

Prevent serious injury or death caused by unexpected movement:

- 1. Park on a level surface.
- 2. Lower cutter to ground.
- 3. Engage parking brake.
- 4. Shut off engine and remove key.

Rotor bolts (A) must be retighten after the first hour of use on a new cutter. After initial check, check bolt tightness before each startup.



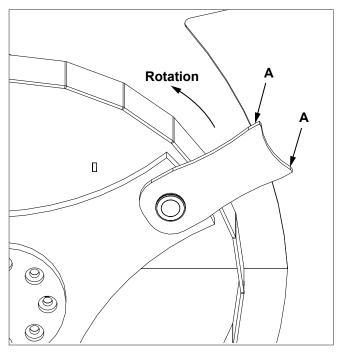
#### **5.3** Every Four Hours

#### WARNING

Prevent serious injury or death caused by unexpected movement:

- 1. Park on a level surface.
- 2. Lower cutter to ground.
- 3. Engage parking brake.
- 4. Shut off engine and remove key.

Check cutting edge (A) of blades for wear and damage. Keep blades in good condition. Unit will cut faster and remaining blades will last longer if broken or worn blades are replaced.



#### 5.4 Every Week

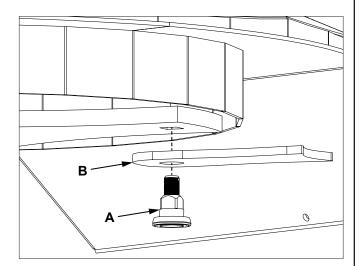
Verify cutting blade bolt cotter pins are in place and not damaged.

### **5.5** Replace Cutting Blades

#### **A** WARNING

Prevent serious injury or death caused by unexpected movement:

- 1. Park on a level surface.
- 2. Lower cutter to ground.
- 3. Engage parking brake.
- 4. Shut off engine and remove key.
- 1. Park excavator and cutter on a level surface.
- 2. Lower cutter to the ground.
- 3. Shut off engine and remove key.
- 4. Inspect blades for damage and wear.
- 5. Remove cotter pin, castle nut, bolt (A) and blade (B).
- 6. Reverse blade or install new blade if necessary.
- 7. Install blade (B), bolt (A) and castle nut. Tighten to 170 lb/ft (230 Nm) of torque. Install cotter pin.



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

### 6 TROUBLESHOOTING

PROBLEM	CHECK	SOLUTION
Rotor does not spin.	Rotor jammed.	Remove material from rotor / blades.
	Verify hydraulic hoses are connected.	Connect hoses.
Excavator is not able to lift cutter.	Excavator is too small.	Use proper size excavator.
Excessive vibration.	Cutting blades worn or missing.	Replace worn, broken or missing blades.
	Debris packed on rotor / blades.	Remove debris.

#### 7 WARRANTY

This 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, when operated and maintained in accordance with the Operating and Maintenance Instructions supplied with this unit. This warranty does not cover misuse or negligence.

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 excavator damage of any kind. The manufacturer is not liable for the maintenance of the product.

This warranty is extended only to the original purchaser. Warranty is void if repairs are attempted by anyone other than an Authorized Service Center.

If a difficulty develops with the product, you should contact your nearest Authorized Repair Center, or distributor. Only these locations are authorized to make repairs to the product or affect the replacement of defective parts, which will be done at no charge within a reasonable time after the receipt of the product. Units or parts should be returned at the customer's expense to the nearest repair location or Authorized Service Center. Pack unit in a strong carton and pad tightly to avoid damage. Damage in-transit is not covered by warranty. Include original purchase receipt with any claim (keeping a copy for your files).

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.

Model Number:	S/N:
Date of Purchase:	Owner's Name

Please note the following details and file this information in an appropriate place.



For parts, specifications and the latest machine information please visit our website. **www.baumalight.com** 

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