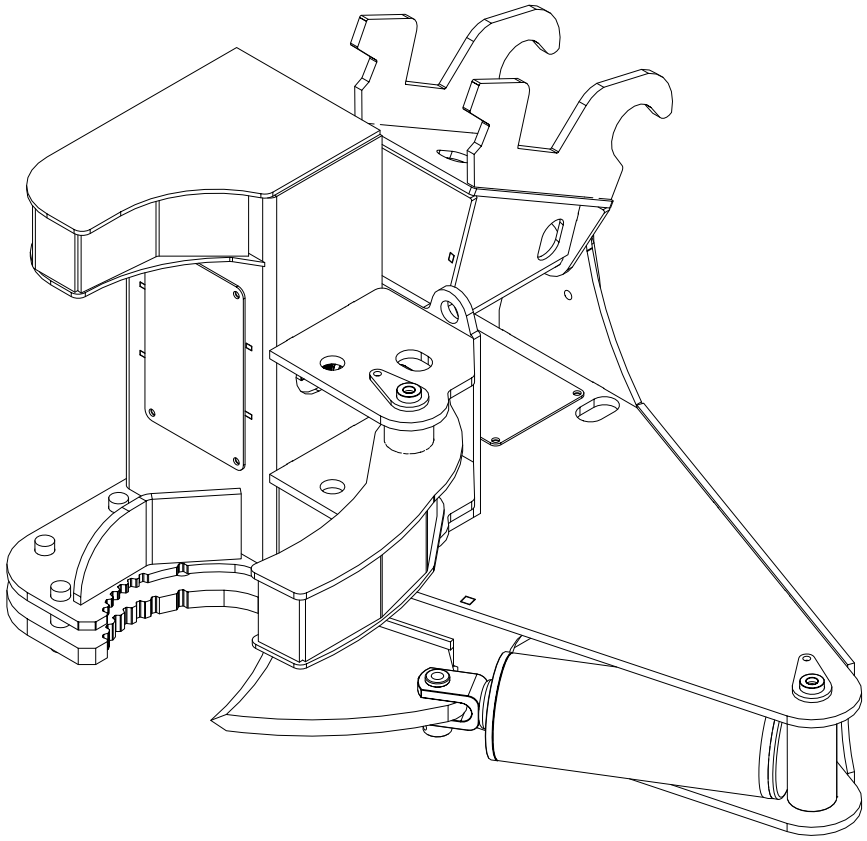
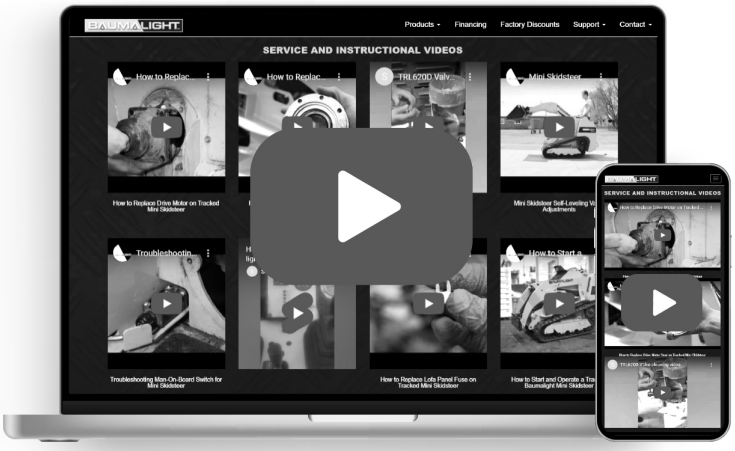


BAUMALIGHT™

IXP Series Hydraulic Tree Shear

OPERATOR'S MANUAL

Issue Date: October 2026



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 tree shear. The list below was current at the time this manual was issued. Additional content may be available.

Activity ID Number	Activity Name	Description	Item Available
230	Greasing And Replacing Pins.	Lubricating Pivot Points And When To Change Pins.	Video
438	Hydraulic Cylinder.	Replacing Seals On Hydraulic Cylinder.	Video

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1 INTRODUCTION

1.1 Overview

Congratulations on your choice of a Baumalight Tree Shear. This equipment has been designed and manufactured to meet the needs of a discriminating buyer.

This new and unique design allows us to build it very economically and makes it a very compact unit for storage and transport. The enhanced visibility make the tree shear easy and efficient to operate. Hydraulic controls are easy to adjust and operate.

The debris guard is standard equipment on all tree shears. It is recommended that the tree shear never be operated with out one.

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

This manual covers the Baumalight excavator mounted Tree Shear. 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.

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

1.2 Intended Use And Foreseeable Misuse

The tree shear is designed to be used by experienced operators, trained in the safe operation of an excavator and trained in the hazards related to using the tree shear and the safe use of the tree shear 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 tree shear will not come across metallic objects, stones or other materials.

Tree shears 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 tool is misused. Misuse may also cause damage to the machine carrying the shear.

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 serious injury or death.

Read and understand this manual before operating the tree shear.

Always lower shear to ground, stop engine and remove key before leaving operators seat.

Never allow anyone near the tree shear or in area where tree ma fall 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.

WARNING

Use tree shear 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 tree shear is locked to quick attach 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.

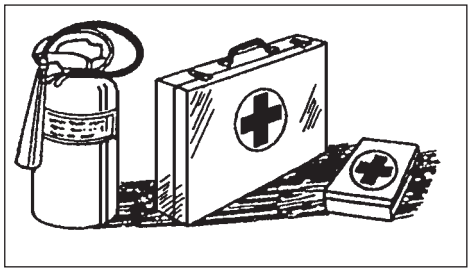
Keep your equipment in proper working condition.

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 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 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 tree shear.
- NEVER use tree shear as a work platform.
- NEVER allow passengers on tree shear.

Lower Operating Speed

- Lower operating speed while loading, unloading or performing heavy operations.
- Keep tree shear 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 tree shear 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

⚠ 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.

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

Detach Tree Shear Safely

Detach tree shear on a firm and level surface. Tree shear 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.

Raised Attachment

⚠ WARNING

Crushing hazard.

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

Never enter the area under a raised tree shear.

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

NEVER enter area under a raised tree shear.

Lower tree shear 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 tree shear. 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 skid steer Operator's Manual) 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.

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 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

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.

⚠ 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

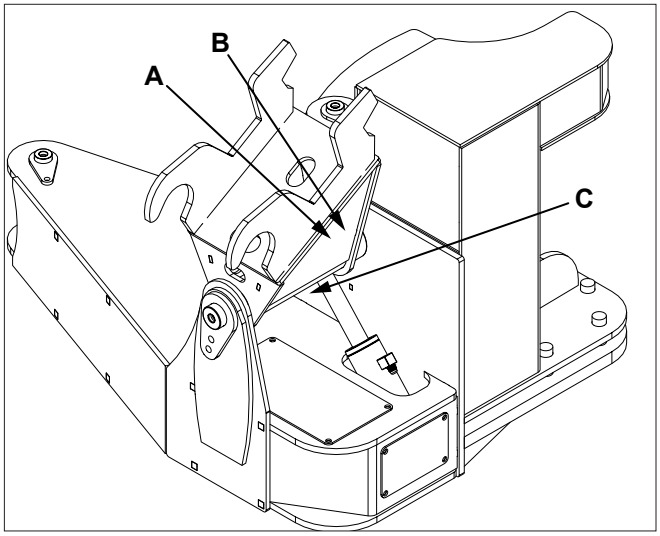
Wear an approved dust mask or respirator.

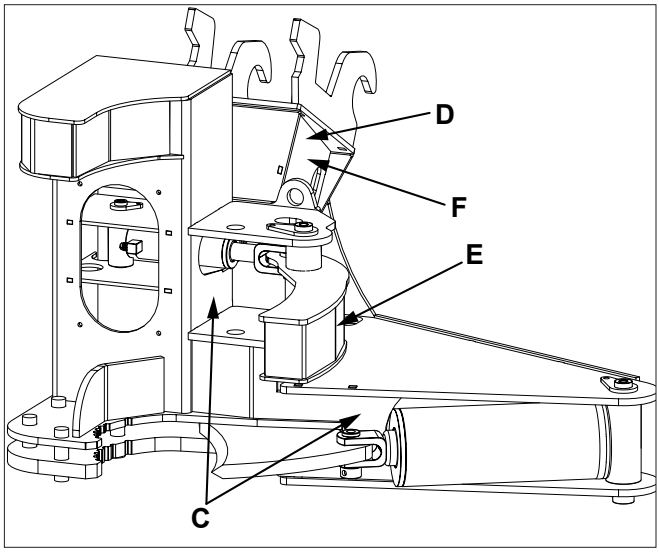
Follow local, state and federal regulations.

3 SAFETY SIGNS

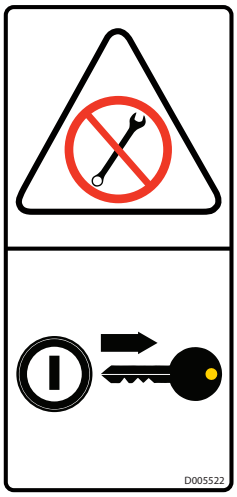
The two and four panel safety decals are pictorial and have a yellow background. The panel with a triangle indicates the potential hazard. The panel without a triangle indicates how to avoid the hazard.

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

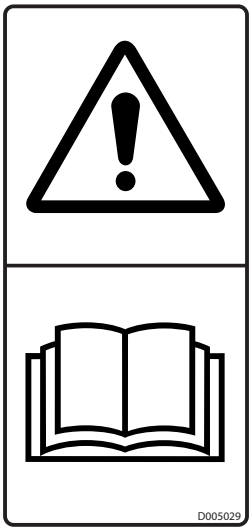




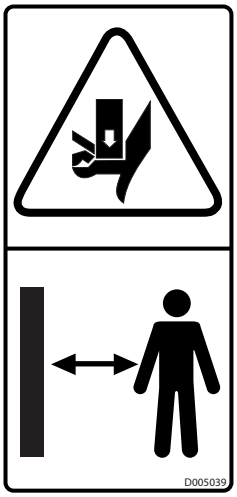
A. D005522 ⚠ WARNING - Remove key before servicing.



B. D005029 ⚠ WARNING - Read and understand safety signs on the machine and operating instructions in this manual before operating machine.



C. D005039 ⚠ WARNING - Pressurized fluid hazard. Pressurized fluids can penetrate the skin. Do not check for leaks with your hands. Keep back a safe distance when pressurized.



D. 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

E. D003375 ⚠ WARNING - warning information.



F. D005030 ⚠ WARNING - Pressurized fluid hazard. Pressurized fluids can penetrate the skin. Do not check for leaks with your hands. Keep back a safe distance when pressurized.



4 OPERATION

4.1 Preparation For Use

⚠ 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.

⚠ WARNING

Moving parts can crush and cut.

Keep clear of moving components.

Follow lockout procedure before servicing.

Although the tree shear 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.

Review and understand this manual and operating unit manual.

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 unit 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 be sure that all recommended steps and procedures have been followed.

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

4.2 Pre-Operation Check List

- Verify that tree shear is properly attached to excavator.
- Verify that hydraulic hoses and electrical cable (if equipped) are properly connected.
- It is operators responsibility to perform the following checks prior to operation of equipment.
  - Review and understand this manual and operating unit 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.
  - Verify that local utilities have marked all underground wires, cables and pipelines.
  - Refer to operating unit operator’s manual for prestarting instructions.

4.3 Hydraulic Connections

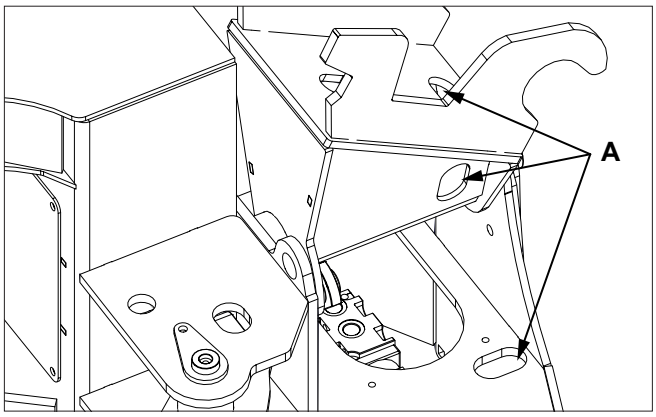
⚠ WARNING

Pressurized fluids can penetrate the skin.

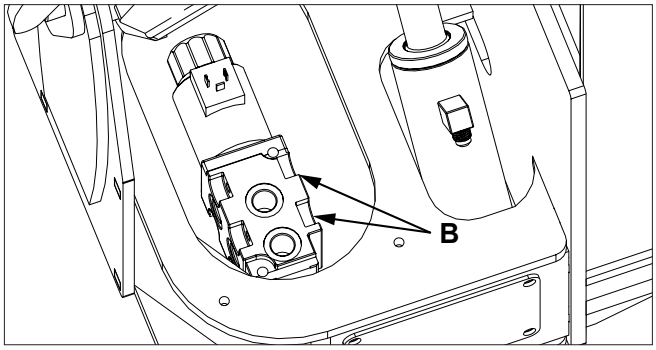
Disconnect and lock out power source before disconnecting and/or connecting hydraulic hoses.

Hydraulic hoses that connect Incisor control valve to excavator are not provided with the Incisor. The IXP308G uses 3/8 in. hoses. All other IXP models will use 1/2 in. hoses. Hose length will vary based on size of excavator.

1. Route hoses through openings (A) in frame.



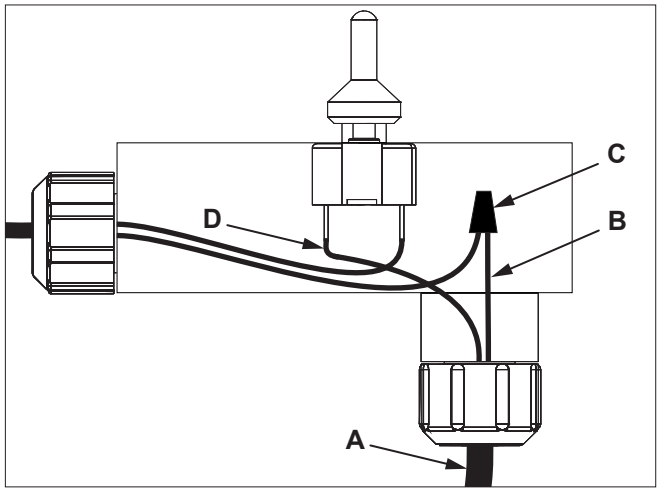
2. Remove cover and connect supply hose and return hose to A ports (B) on valve. Install cover.
3. Route hoses along boom and connect to excavator hydraulic system.



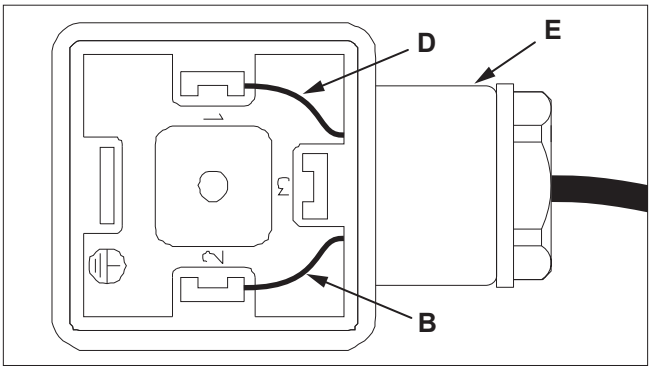
4.4 Electrical Connections

Electrical wire that runs from the Incisor valve to the remote pendent is not provided with the Incisor. Wire length will vary based on size of excavator.

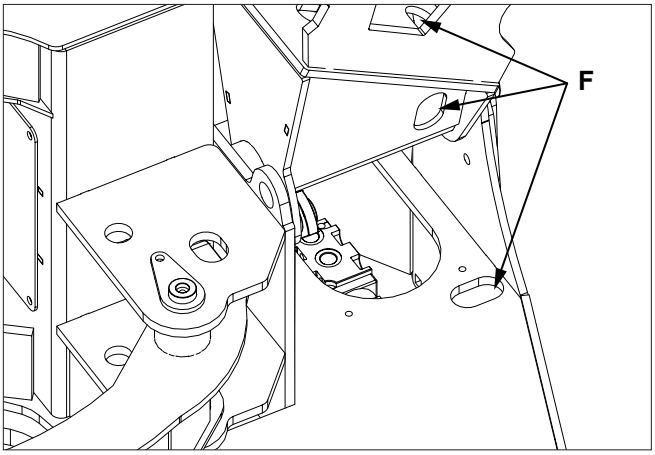
1. Remove cover from remote pendent.
2. Route 12 gauge or larger wire (A) into pendent through port on back of pendent.
3. Connect negative (-) wire (B) to free wire from 12v power supply wire with supplied connector (C).
4. Attach supplied ring terminal to positive (+) wire (D). Attach ring terminal to open terminal on switch.
5. Install pendent cover.



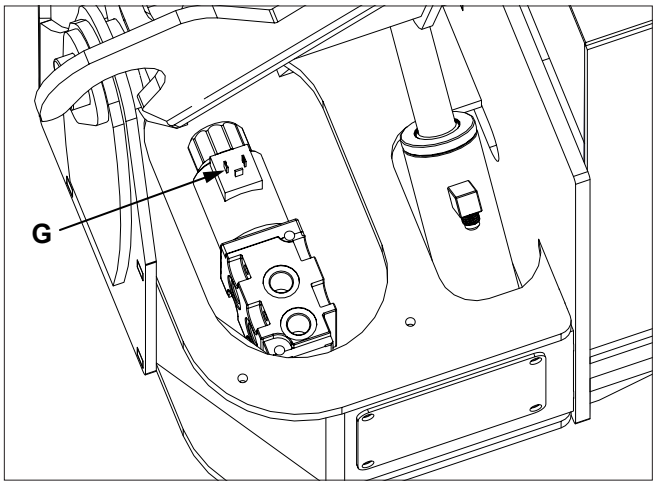
6. Disassemble plug (E) and route other end of wire (A) into plug.
7. Connect positive (+) wire (D) to terminal 1.
8. Connect negative (-) wire (B) to terminal 2.
9. Assemble plug (E).



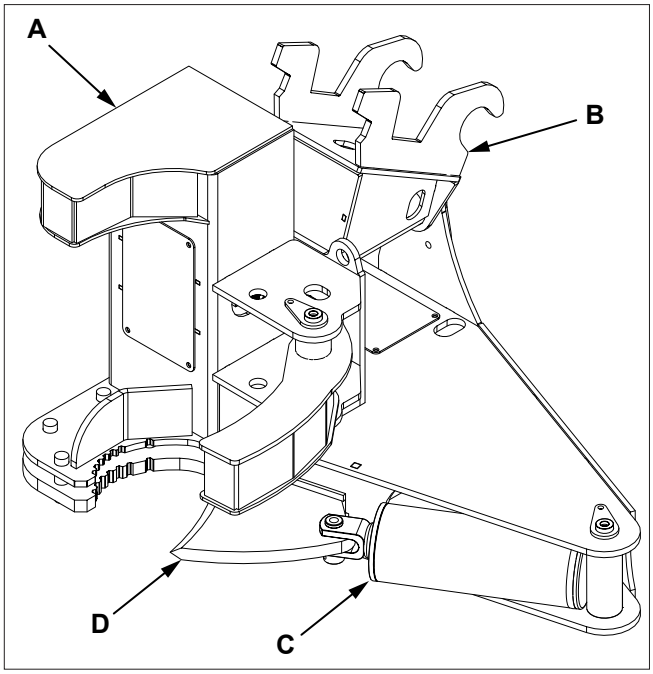
10. Route connector (E) along boom and through openings (F) in frame.

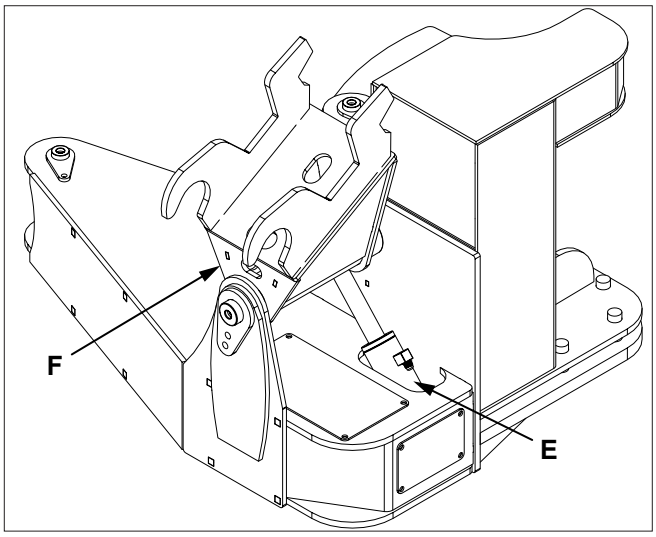


11. Attach connector (E) to valve (G).



4.5 Machine Components





A. Grabber Assembly
B. Pin-On Wedge Coupler
C. Shear Cylinder
D. Shear Blade
E. Pivot Cylinder
F. Pivot Assembly

4.6 Attach Tree Shear

⚠ WARNING

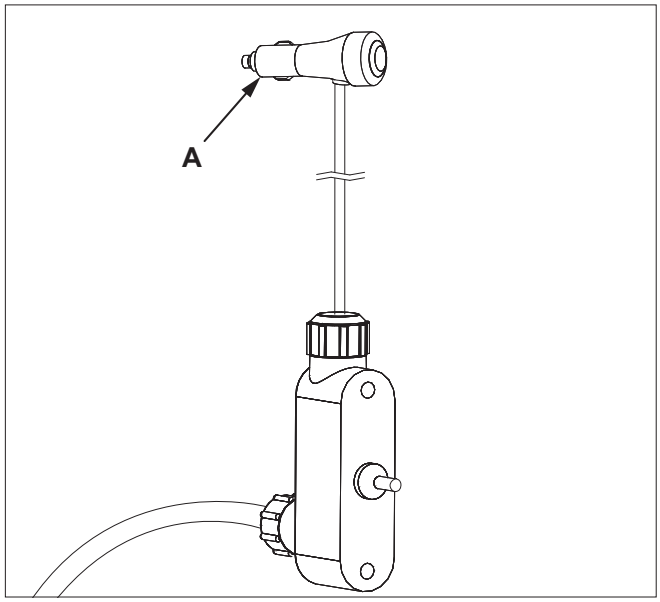
To prevent injury or machine damage put transmission in park.

Never position yourself between excavator and tree shear.

Only experienced and properly trained operator's should operate excavator and tree shear.

Note: *Use this procedure to connect to excavator after the initial setup has been performed.*

1. Read and follow all safety instructions.
2. Attach tree shear to excavator. See excavator Operator's Manual.
3. Connect hydraulic hoses. Verify hydraulic hoses are clear of pinch areas and moving parts.
4. Connect remote pendent connector (A) to excavator 12 volt power supply.



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

4.7 Transporting

⚠ WARNING

Always stop engine and remove key before leaving operators seat.

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

4.8 Detach Tree Shear

⚠ WARNING

Prevent serious injury or death caused by unexpected movement:

1. **Park excavator on a level surface.**
2. **Engage parking brake.**

1. Park excavator on a level surface.
2. Lower tree shear to the ground.
3. Shut off engine and remove key.
4. Disconnect hydraulic hoses and electrical harness.
5. Detach tree shear from excavator. See Operator's Manual.

4.9 First Time User Tips

- First, operate all functions in a clear area with excavator at idle to get a good feel for the controls.
- Raise tree shear slightly off ground
- Slow travel speed if pressure surges up close to max psi. Doing this will greatly reduce jambs, and with practice, will almost eliminate jambs.

WARNING

Always stop engine and remove key before leaving operators seat.

WARNING

Wear an approved dust mask or respirator.

Follow local, state and federal regulations.

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.

4.10 Field Operation

WARNING

Prevent serious injury or death caused by unexpected movement:

1. **Park excavator on firm, level surface.**
2. **Engage excavator parking brake.**

WARNING

Never operate tree shear when other people are in the vicinity.

Keep all shields in place.

Do not allow riders on excavator.

WARNING

Clean machine thoroughly before service or maintenance procedures.

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.

WARNING

Prevent serious injury or death.

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

1. Attach tree shear to excavator. See Attach Tree Shear in this section.

⚠ 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.

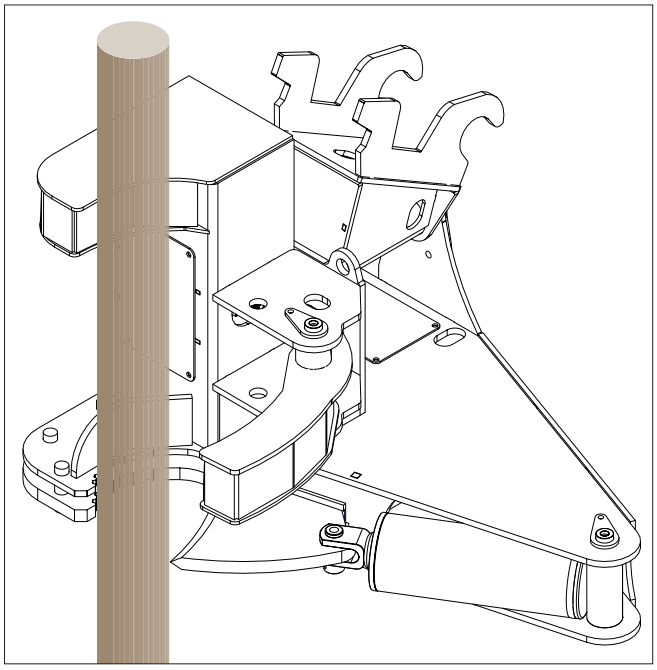
⚠ WARNING

Wear an approved dust mask or respirator.

Follow local, state and federal regulations.

2. Operate hydraulics to open shear and clamps.
3. Position shear so tree is as far into rear of blade opening as possible for most cutting power.
4. Position tree shear as low as possible when cutting tree. Shear tree perpendicular to grain. Do not cut with shear blade skewed to tree axis. Shear blade may be damaged.
5. Move and hold pendent switch (A) and operate hydraulics to rotate shear head perpendicular to grain of tree.

1. Release control box switch and operate hydraulics to close clamps and close shear blade, cutting tree.
2. Swing or move excavator to desired location and operate hydraulics to open clamps to drop tree.



5 SERVICE AND MAINTENANCE

5.1 Maintenance

Maintenance Chart		
General Inspection	Inspect the unit for any buildup of contamination (dirt, stones, etc.).	Daily
Hydraulic Hoses and Fittings	Inspect for damage or wear. Replace damaged or worn hoses and fittings.	Daily
Rotor Bearings	Check bearings for side-to-side and up/down movement. Replace bearings if movement is found.	Every Week.
Rotor And Depth Roller Bearings	Lubricate bearings.	1 pump every 250 hours of use.
Blade To Cylinder Pivot Point	Lubricate with water resistance grease.	Every 4 hours of use.
All Other Pivot Points	Lubricate with water resistance grease.	Every 8 hours of use.

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.



5.2 Inspections

⚠ WARNING

Prevent serious injury or death caused by unexpected movement:

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

⚠ WARNING

Clean machine thoroughly before service or maintenance procedures.

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.

⚠ 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.

Inspect hydraulic hoses for damage and wear. Replace damaged or worn hoses before operating shear.

Inspect the unit for any buildup of contamination (dirt, stones, etc.).

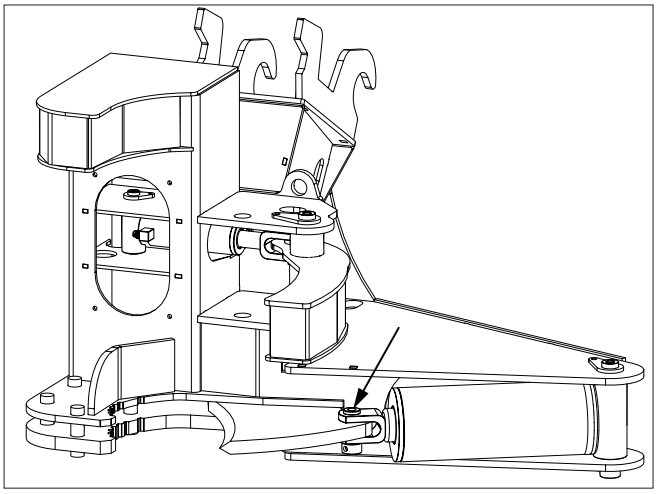
5.3 Lubrication

⚠ WARNING

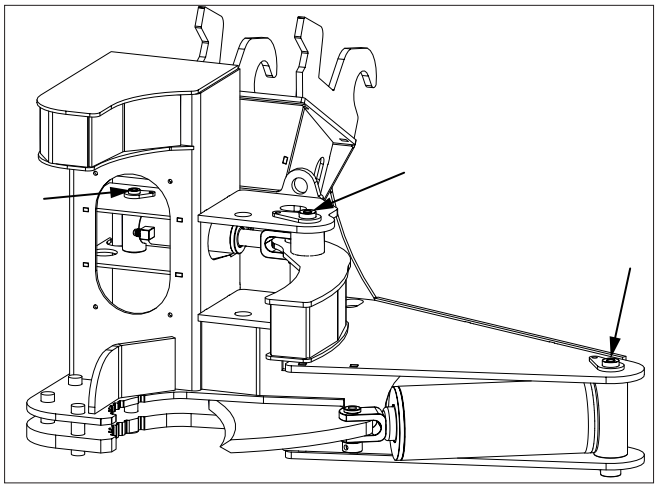
Prevent serious injury or death caused by unexpected movement:

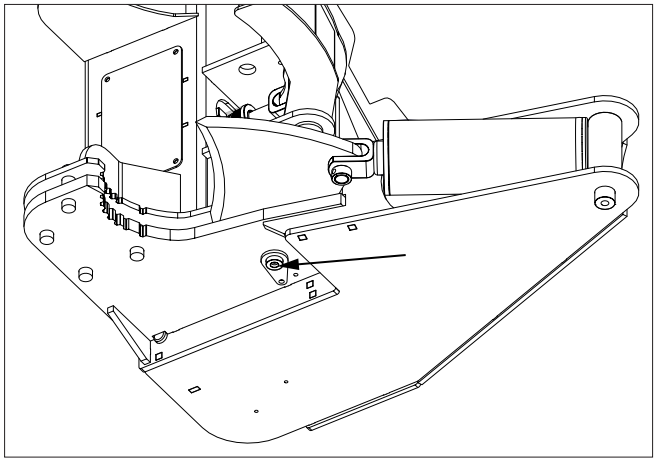
1. **Park excavator on a level surface.**
2. **Lower shear to ground.**
3. **Engage excavator parking brake.**
4. **Shut off engine and remove key.**

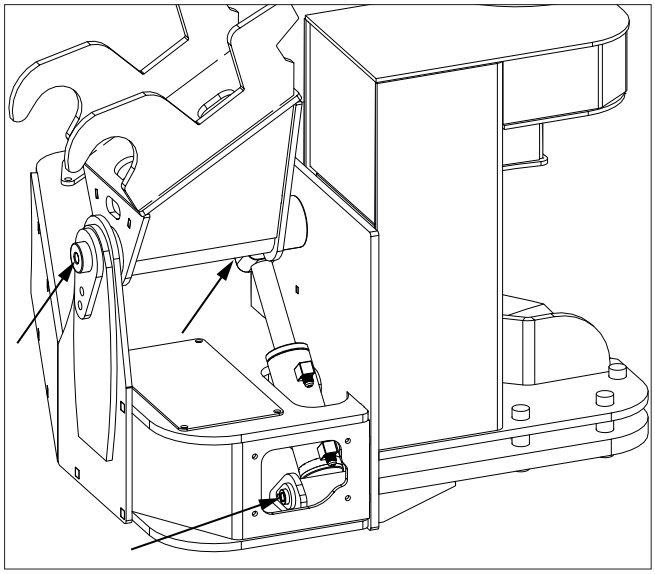
1. Pump water resistant grease into pivot point between blade and cylinder. Pivot point is adequately lubricated once grease comes out of bushing. Grease every 4 hours of use.



2. Pump water resistance grease into all other pivot point lubrication fittings. Pivot point is adequately lubricated once grease comes out of bushing. Grease every 8 hours of use.







6 TROUBLESHOOTING

PROBLEM	CHECK	SOLUTION
Shear does not close.	Shear jammed.	Remove material from shear.
	Low oil.	Check oil level in excavator. Add if necessary.
	Low oil flow.	Check flow control on excavator. Add if necessary. See your dealer.
Shear does not have much power.	Low oil.	Check oil level in excavator. Add if necessary.
	Oil filter plugged.	Replace excavator oil filter.
	Excavator relief valve not set properly.	Set relief valve. Pressure should be between 3,500 and 4,000 psi. See your dealer.
	Not enough oil pressure.	Check hydraulic pressure on excavator. See your dealer.

7 STORAGE

7.1 Storing

1. Store tree shear in a dry place.
2. Clean tree shear thoroughly. Dirt and wood chips 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 and check adjustments.
2. If parts have been replaced, verify they run properly.

8 WARRANTY

To view the warranty, scan the QR Code below, or go to Baumalight.com. From the Support drop down, click on Support, then select Tree Shears. Select Product Warranty.

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