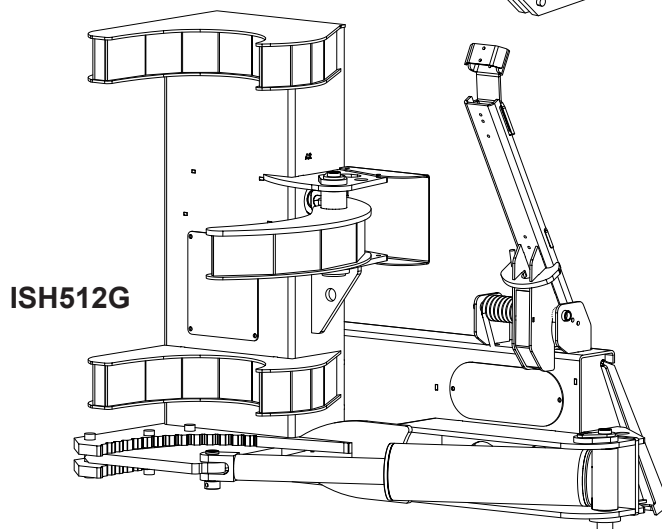
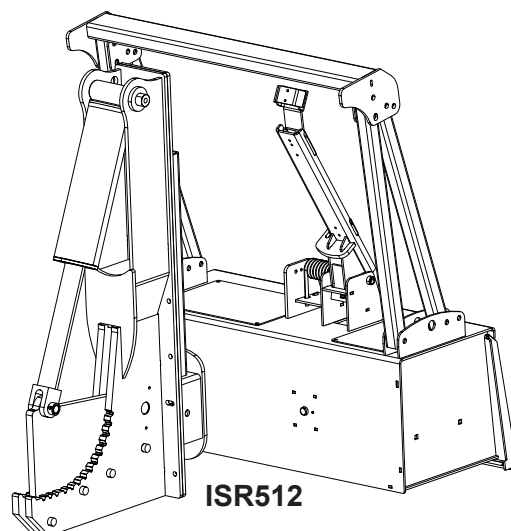
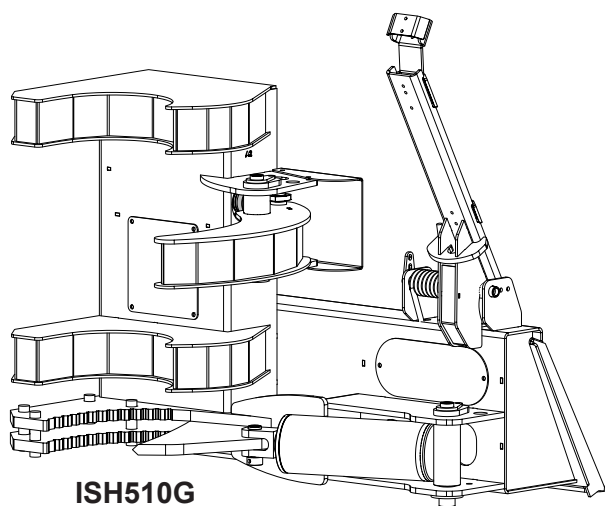




BAUMALIGHT™

ISH510G, ISH512G And ISR512 Skidsteer Hydraulic Tree Shear

OPERATOR'S MANUAL



**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.

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1 INTRODUCTION

1.1 Overview

Congratulations on your choice of a Baumalight Incisor Tree Shear to complement your operation. 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 skidsteer mounted Incisor 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. 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 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 an experienced operator. Operator must be trained in the safe operation of a skidsteer and 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 tree shear.

Care is required to ensure that the tree shear will not come in contact with 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 shear 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 death or serious injury.
Read and understand this manual before operating tree shear.
Always stop engine and remove key before leaving operators seat.
Never allow anyone in near tree shear or in area where tree may fall during operation.
Travel at a safe speed.

 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 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 death or serious injury.

Verify tree shear is locked to quick attach hitch 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.

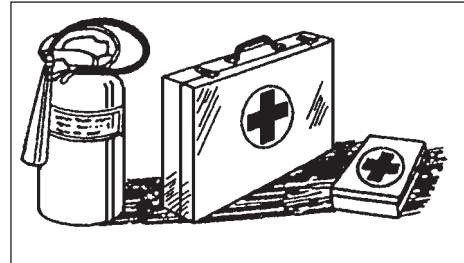
New equipment components and repair parts must include the current safety decal.

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.

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

Lower Operating Speed

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

 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 unlevel 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.

Hazards From Modifying Equipment

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

Doctors unfamiliar with this type of injury should reference a knowledgeable medical source.

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.

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.

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

Do not make unauthorized modifications. Contact Baumalight 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.



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.

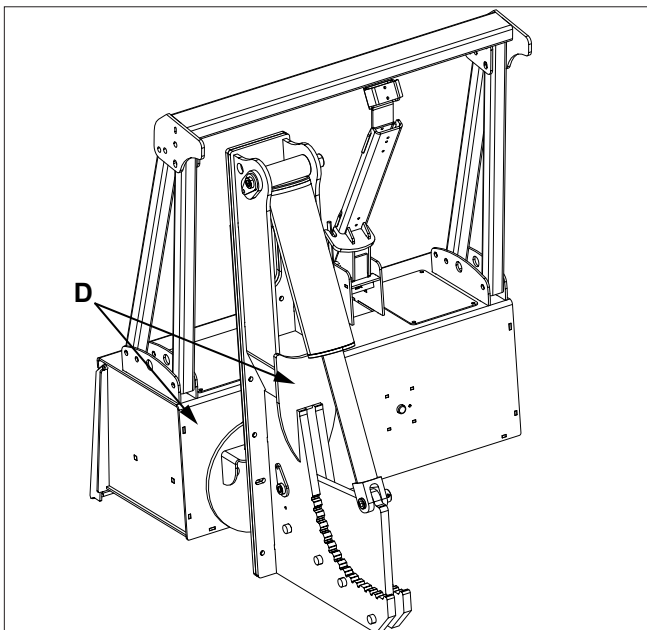
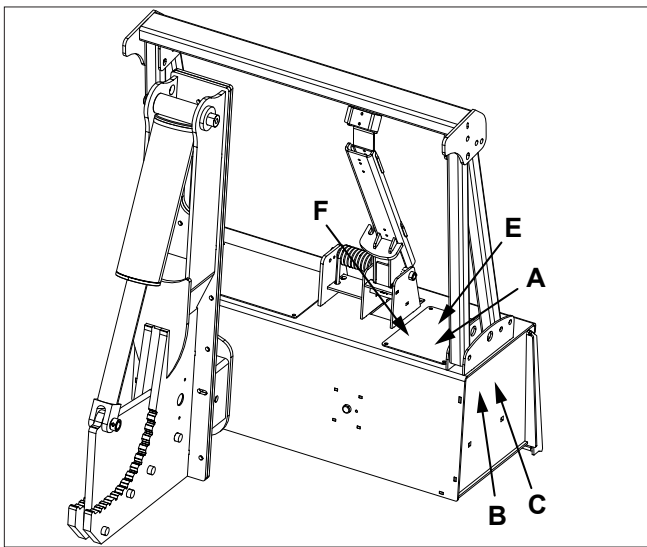
Allow oil to cool before servicing.

3 SAFETY SIGNS

3.1 ISR512 Decals

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.

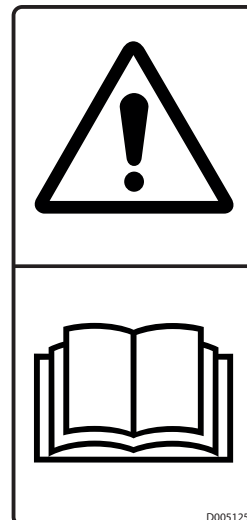
If any of the decals are missing, are damaged, or if you do not understand the decal, please contact your dealer.



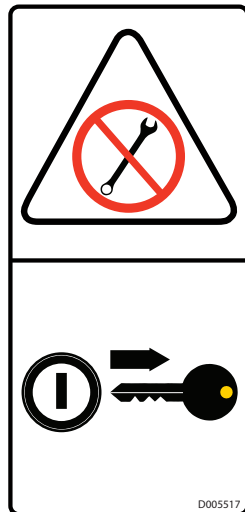
- A. D005126  WARNING - Pressurized fluid hazard. Pressurized fluids can penetrate the skin. Do not check for leaks with your hands. Keep back a safe distance when pressurized.



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



- C. D005517 ⚠ WARNING - Remove key before servicing.



- D. D005127 ⚠ WARNING - Pinch hazard. Keep back while machine is operating.



- E. 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

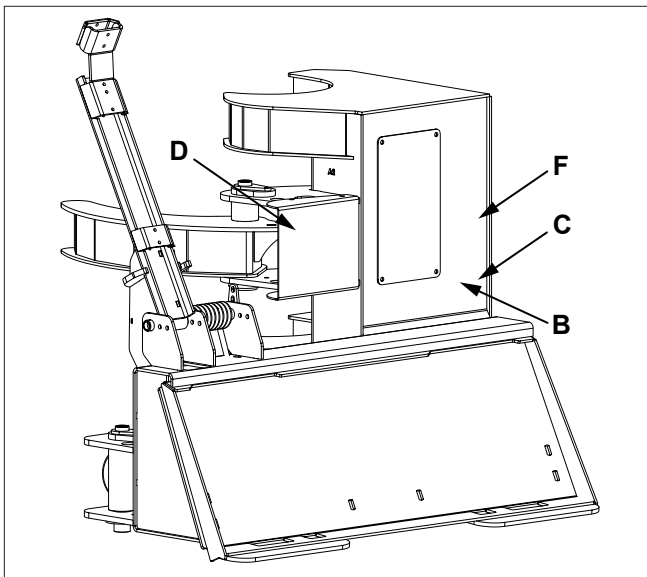
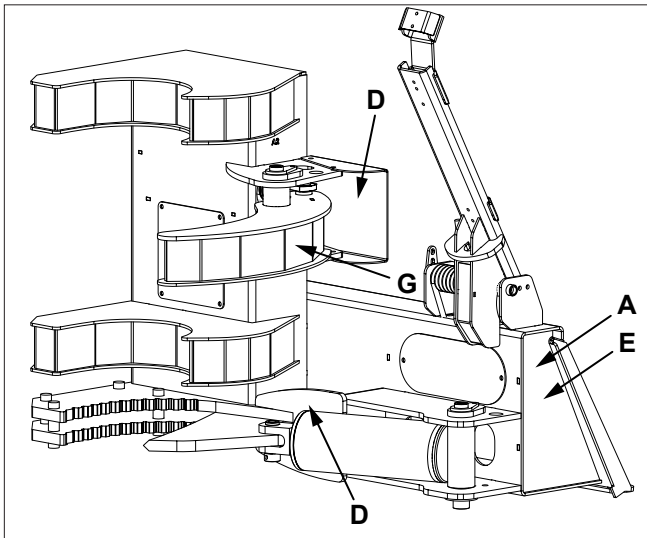
- F. D005335 ⚠ WARNING - Wear personal protective equipment appropriate for the job.



3.2 ISH510G Decals

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.

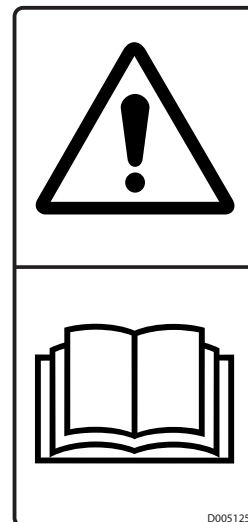
If any of the decals are missing, are damaged, or if you do not understand the decal, please contact your dealer.



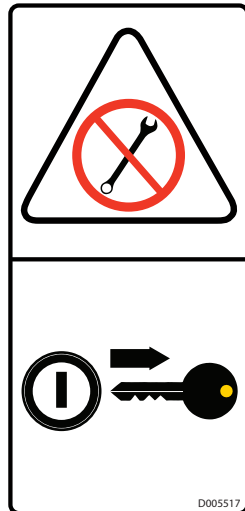
- A. D005126  WARNING - Pressurized fluid hazard. Pressurized fluids can penetrate the skin. Do not check for leaks with your hands. Keep back a safe distance when pressurized.



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



- C. D005517 ⚠ WARNING - Remove key before servicing.



- D. D005127 ⚠ WARNING - Pinch hazard. Keep back while machine is operating.



- E. 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

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



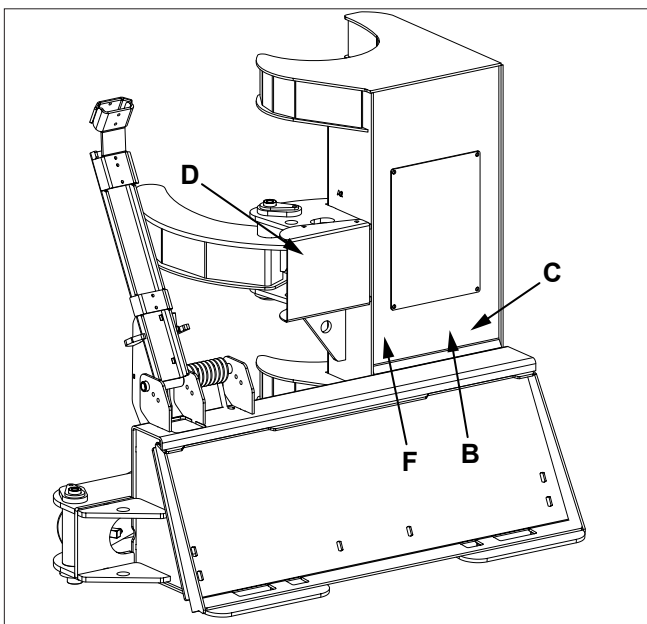
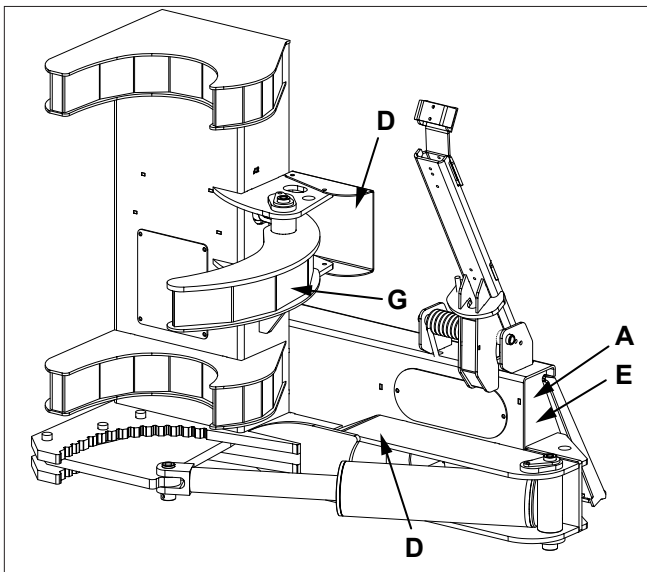
- G. D003190 ⚠ DANGER Stand Clear

⚠ DANGER STAND CLEAR

3.3 ISH512G Decals

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.

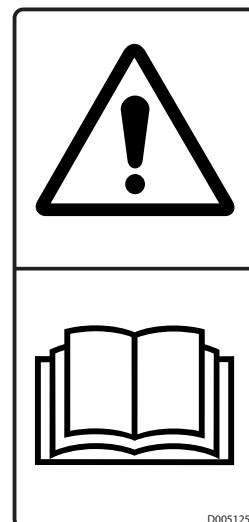
If any of the decals are missing, are damaged, or if you do not understand the decal, please contact your dealer.



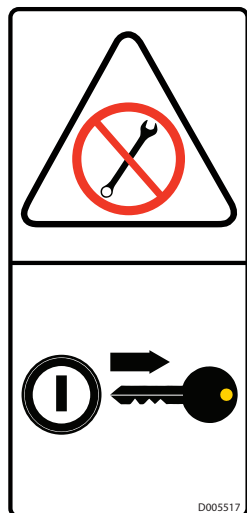
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- B. D005125  WARNING - Read and understand safety signs on the machine and operating instructions in this manual before operating machine.



- C. D005517 ⚠ WARNING - Remove key before servicing.



- D. D005127 ⚠ WARNING - Pinch hazard. Keep back while machine is operating.



- E. 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

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



- G. D003190 ⚠ DANGER Stand Clear

⚠ DANGER STAND CLEAR

4 OPERATION

4.1 Preparation For Use

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.

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 tree shear 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 ensure 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.

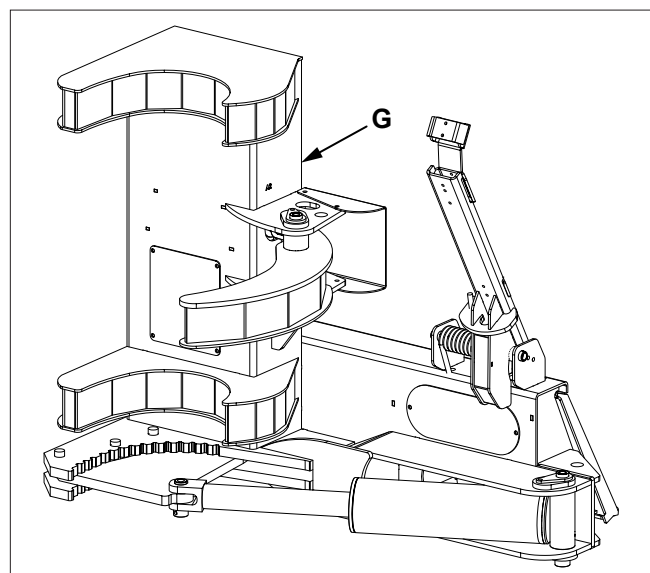
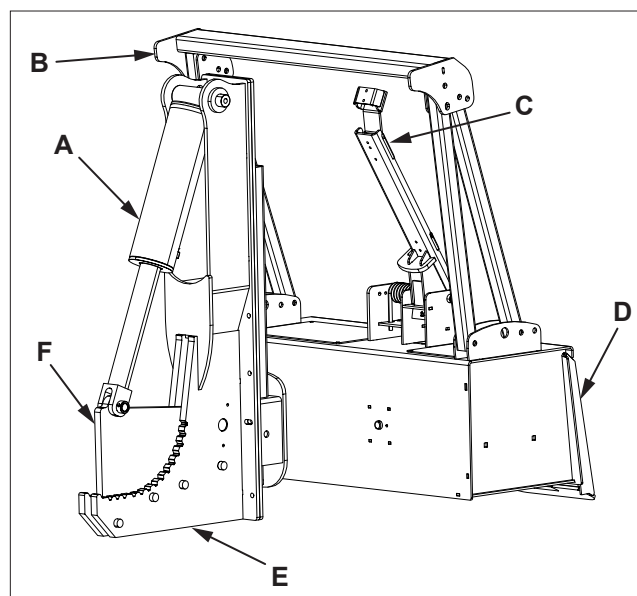
You must connect your skidsteer pressure and return hoses to tree shear hoses.

Fitting Size	Hose Description	Qty.
3/8 JIC FM	1/2 in. Top Cylinder Hose	2
3/8 JIC FM	3/8 in. Blade Cylinder Hose	2
3/8 JIC FM	1/4 in. Rotate Cylinder Hose	2

Skidsteer hoses must be the same size as the tree shear hoses. Using smaller diameter hoses will decrease hydraulic flow.

4.3 Machine Components

- A. Hydraulic Cylinder
- B. Guard (If Equipped)
- C. Hydraulic Hose Support Arm
- D. Quick Attach
- E. Shear Plate
- F. Shear Blade
- G. Grabber Assembly (if Equipped)



4.4 Attach To Skidsteer

WARNING

To prevent injury or machine damage put transmission in “Park”.

Never position yourself between skidsteer and tree shear.

Only experienced and properly trained operator's may operate skidsteer and tree shear.

1. Read and follow all safety instructions.
2. Attach skidsteer to tree shear. See skidsteer operator's manual.
3. Connect hydraulic hoses. Verify hydraulic hoses are clear of pinch areas and moving parts. Hoses must transition smoothly from support arm to the skidsteer as shown and cannot be twisted or looped. Adjust hose length between support arm and skidsteer to be as short as possible. Tilt tree shear fully forward to test for correct length. Support arm must not be at the end of its movement when tilted fully forward. Extra hose length can be coiled inside the shear body.



4. If equipped, connect remote pendent to skidsteer 12 volt power supply.
5. Move to a clear open area to test functions.

4.5 Detach From Skidsteer

WARNING

Prevent death or serious injury caused by unexpected movement:

1. Park skidsteer on a level surface.
2. Engage skidsteer parking brake.

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

4.6 Transporting

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

4.7 First Time User Tips

Operate all functions in an open area with skidsteer at idle to get a good feel for the controls.

Run throttle only at half speed for first time users.

WARNING

Always stop engine and remove key before leaving operators seat.

4.8 Field Operation



WARNING

Prevent serious injury or death caused by unexpected movement:

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



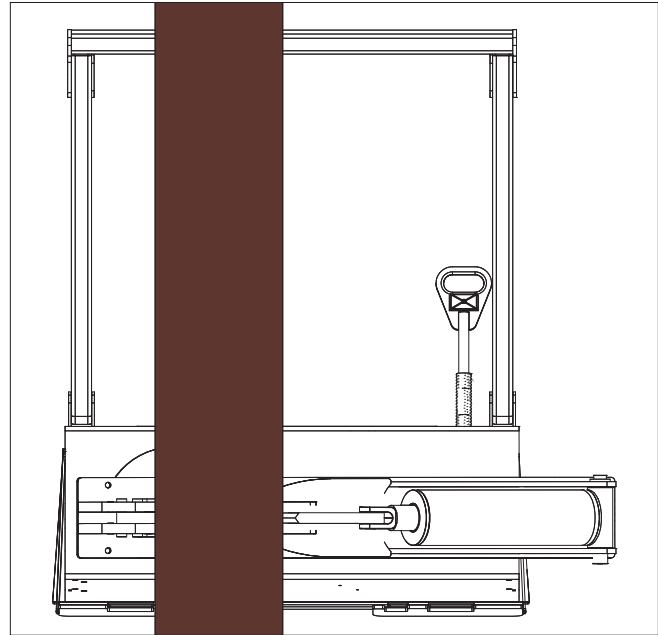
WARNING

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

Keep all shields in place.

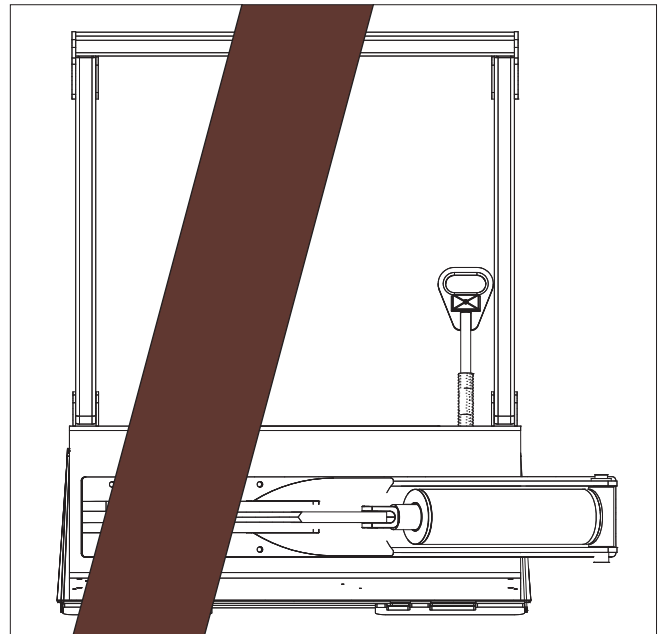
Do not allow riders on skidsteer.

1. Attach tree shear to skidsteer. See Attaching/ Detaching in this section.
2. ISR Models Only: Move pendent switch to shear position.
3. Operate hydraulics to open shear.
4. Drive to tree.
5. Position shear so tree is as far into rear of blade opening as possible for most cutting power.
6. Position tree shear as low as possible when cutting tree. Shear tree perpendicular to grain.
7. ISR Models Only: Move pendent switch to rotate position. Operate hydraulics to rotate shear head perpendicular to grain of tree.
8. ISR Models Only: Move pendent switch to shear position.
9. Operate skidsteer hydraulics to close shear blade, cutting tree.
10. After tree is cut, drive skidsteer forward to push tree to ground.



Recommended

Do not cut with shear blade skewed to tree axis. Shear blade may be damaged.



Not Recommended

5 SERVICE AND MAINTENANCE

5.1 Lubrication

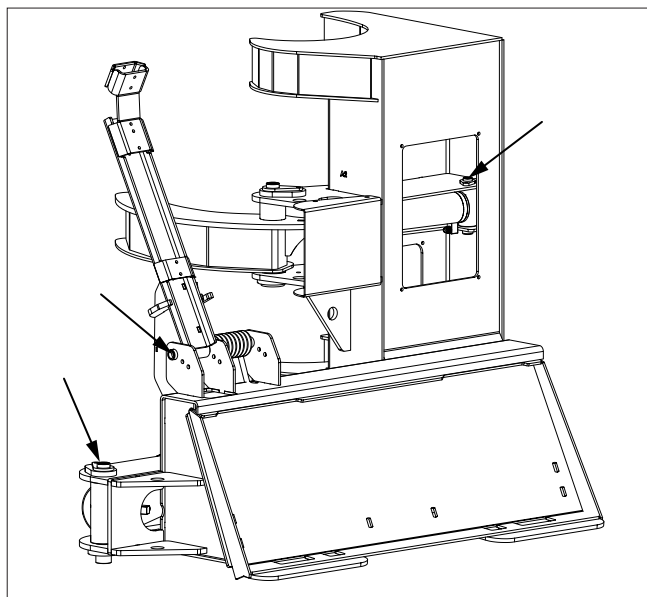
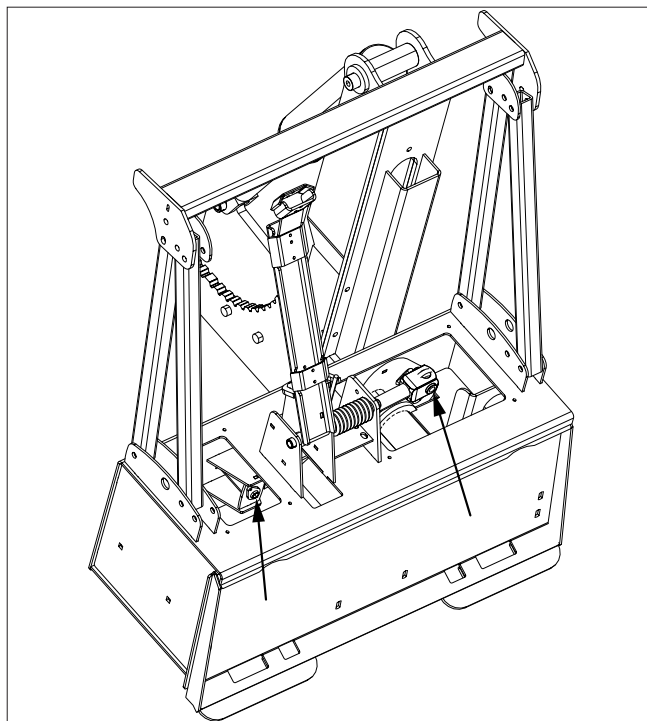
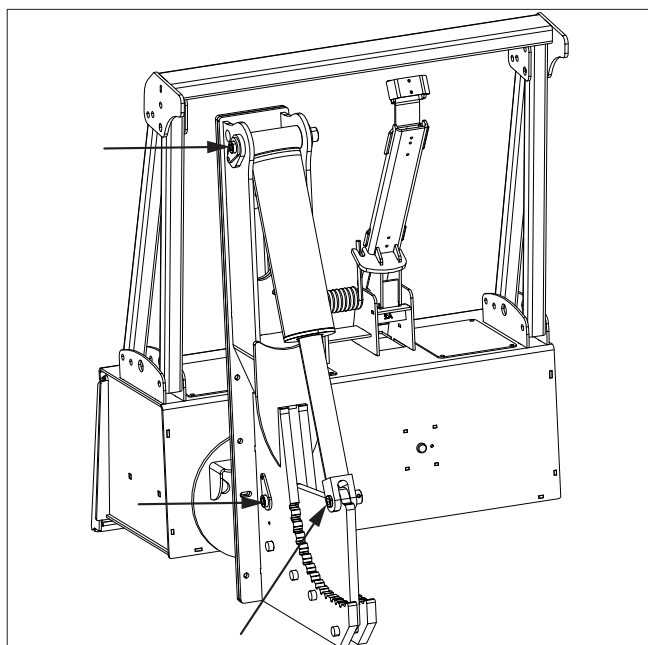


WARNING

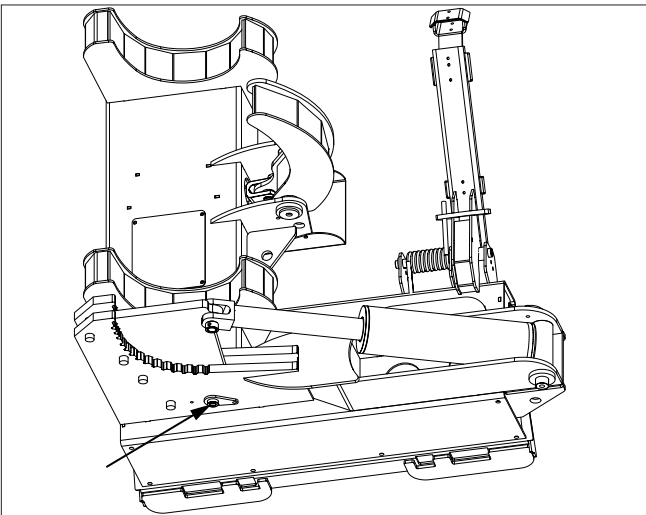
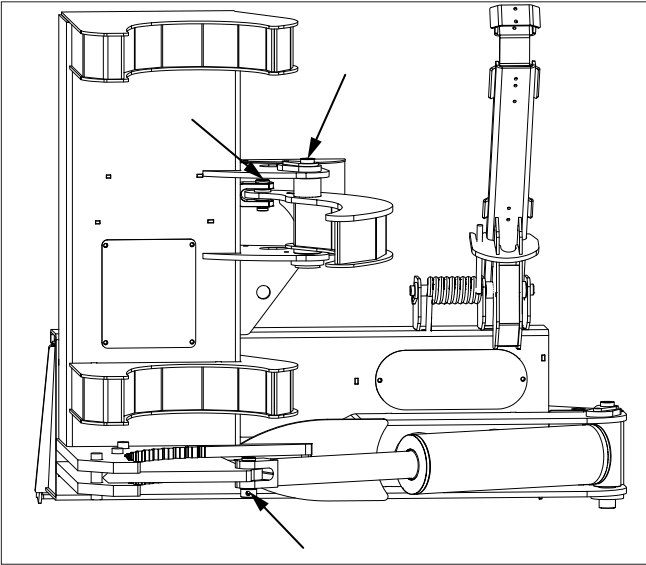
Prevent serious injury or death caused by unexpected movement:

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

1. Pump grease into all pivot point lubrication fittings until adequately lubricated.



5.2 Inspect Hoses



WARNING

Prevent serious injury or death caused by unexpected movement:

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

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.

6 TROUBLESHOOTING

PROBLEM	CHECK	SOLUTION
Shear does not close.	Shear jammed.	Remove material from shear.
	Low oil.	Check oil level in skidsteer. Add if necessary.
	Not enough oil flow.	Check flow control on skidsteer. See your dealer.
Shear 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.
	Not enough oil pressure.	Check hydraulic pressure on skidsteer. See your dealer.

7 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 Baualight 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

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