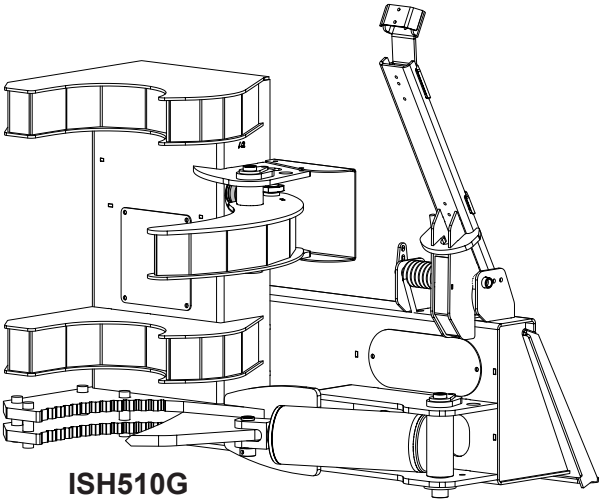
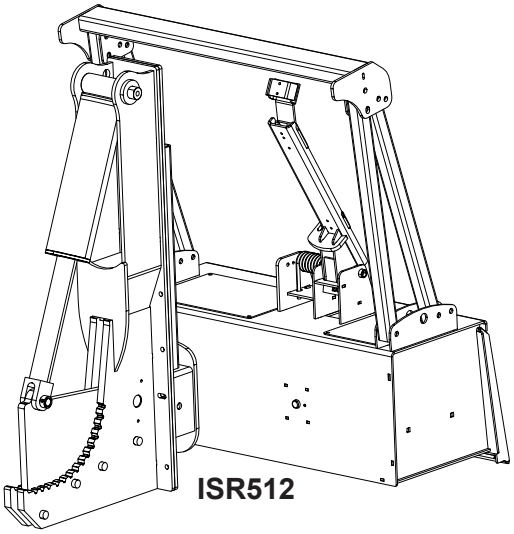
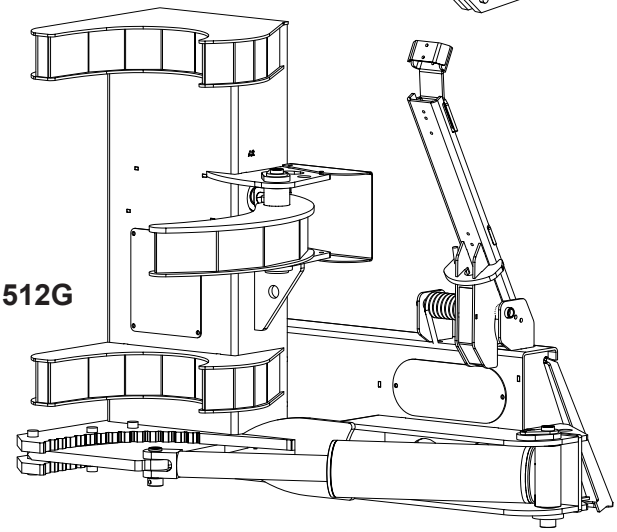


ISH510G



ISR512



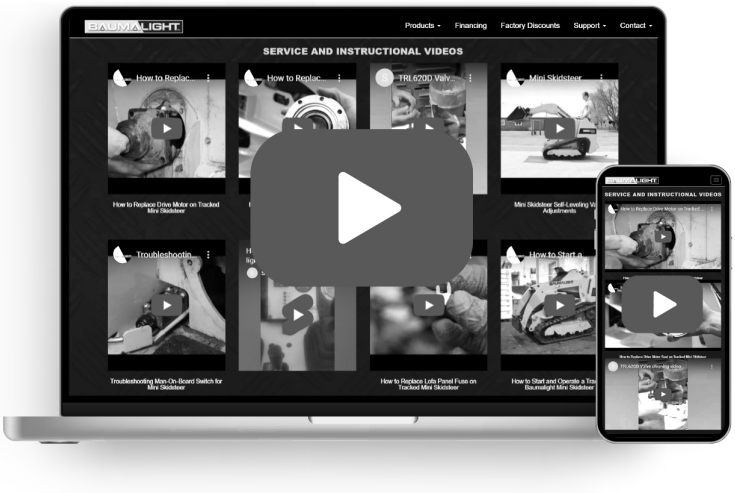
ISH512G

BAUMALIGHT™

ISH510G, ISH512G And ISR512 Skidsteer 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
90	Inserting A Pin In A 8 And 14 Pin Connector.	Changing Pins In Aux Receptacle.	Video
230	Greasing And Replacing Pins.	Lubricating Pivot Points And When To Change Out Pins.	Video
412	Skidsteer Case Drain Back-Pressure.	What May Cause Skidsteer Case Drain Back-Pressure.	Video
413	Skidsteer Case Drain Back-Pressure.	Testing Case Drain Back-Pressure With Pressure Gauge.	Video
414	Skidsteer Case Drain Back-Pressure.	Testing Case Drain Back-Pressure With Open Coupler.	Video
230	Greasing and Replacing Pins.	Lubricating Pivot Points And When To Change Out Pins.	Video
479	Communicating Measurements.	Why Not To Send Pictures Of Measuring Tapes To Communicate Measurements.	Video
455	John Deere P Series.	Aux Pin Out Support.	Document

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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. 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 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.

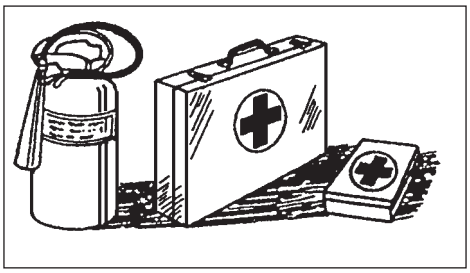
Learn how to properly operate equipment. NEVER operate or work around this equipment without proper instruction, while fatigued or under the influence of alcohol, prescription or non-prescription medication or if feeling ill.

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 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 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 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

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.

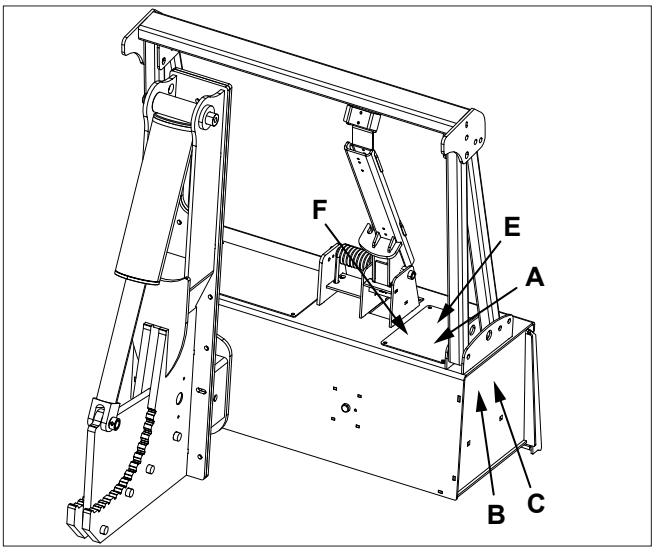
Allow oil to cool before servicing.

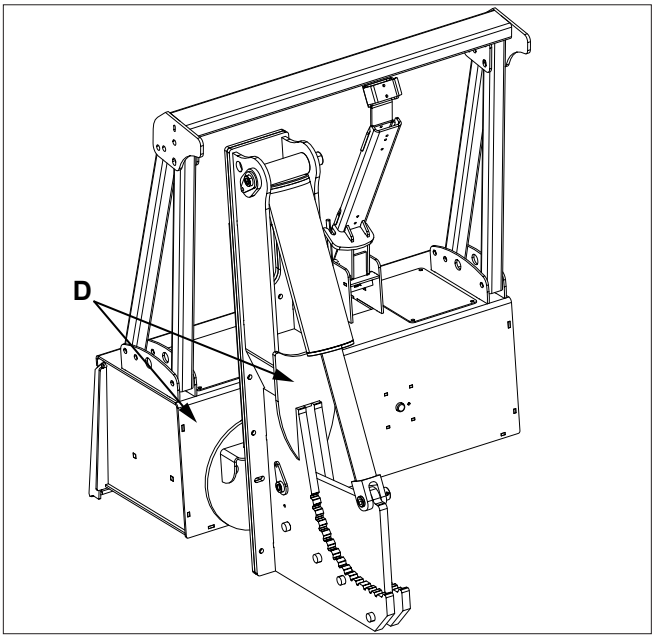
3 SAFETY SIGNS

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.

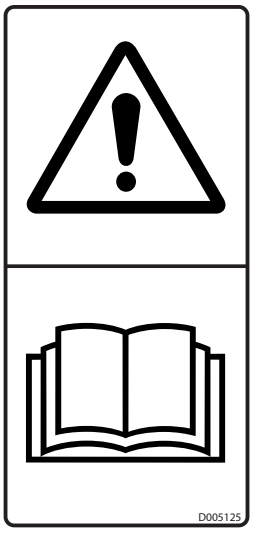




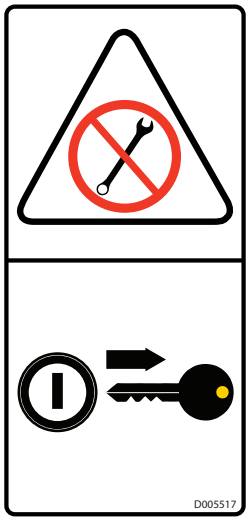
A. D005126 ⚠ WARNING - Pressurized fluid hazard. Pressurized fluids can penetrate the skin. Do not check for leaks with your hands. Keep back a safe distance when pressurized.



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

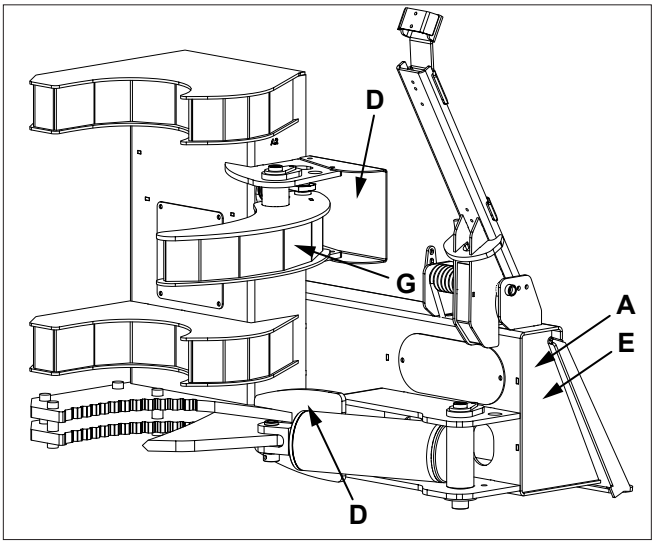
F. D005335 ⚠ WARNING - Wear personal protective equipment appropriate for the job.

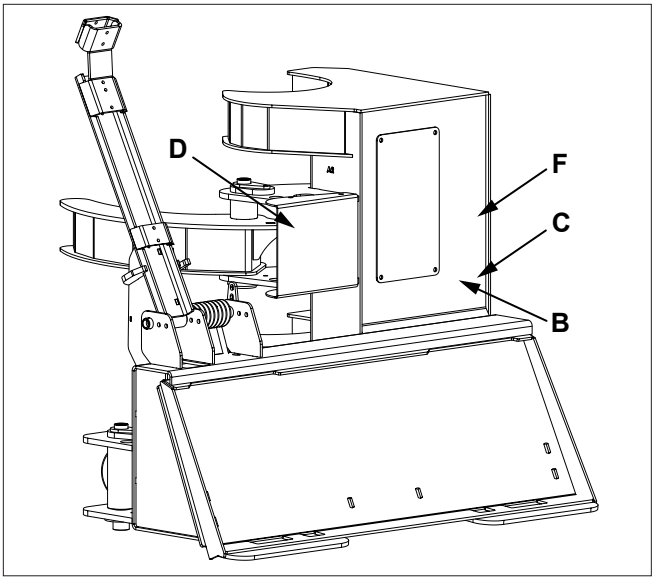


3.2 ISH510G Decals

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.

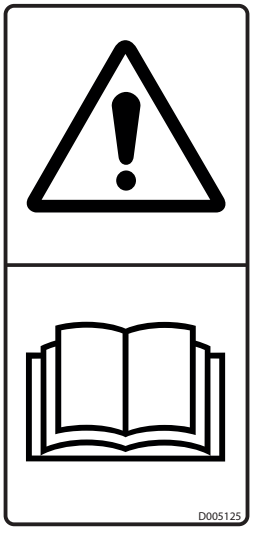




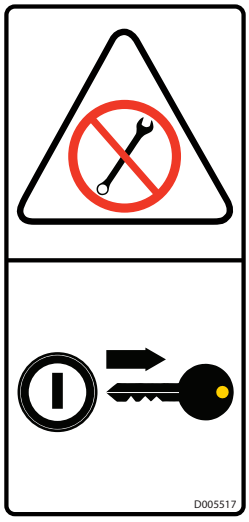
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E. D005262 ⚠ WARNING - P65 warning information.

⚠ **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.



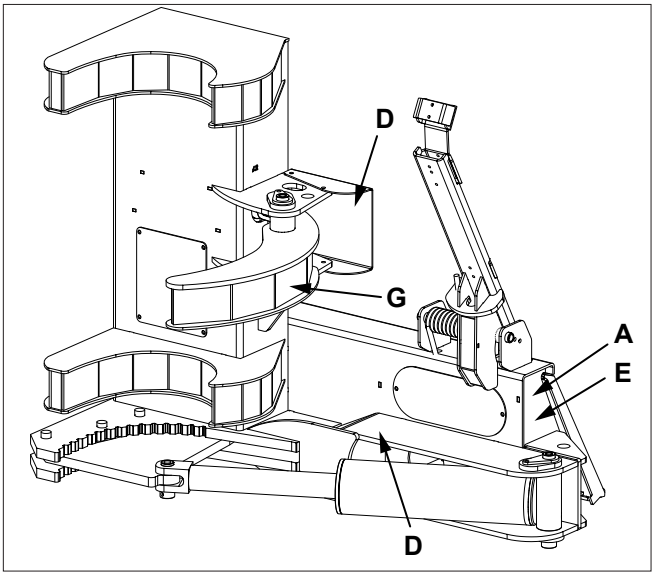
G. D003190 ⚠ DANGER Stand Clear

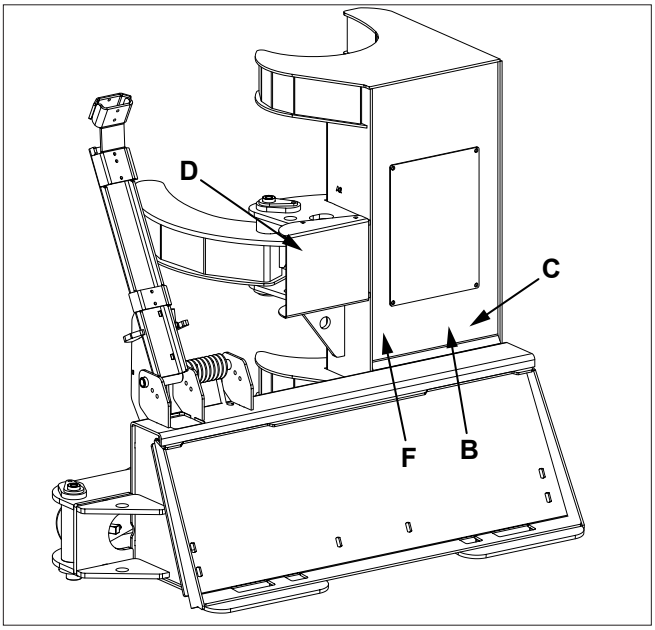


3.3 ISH512G Decals

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.

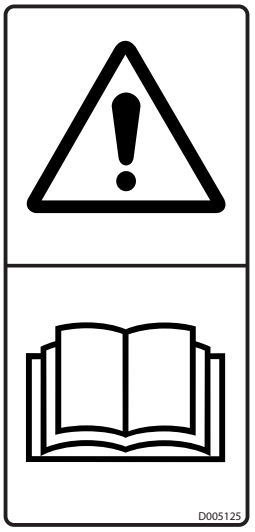




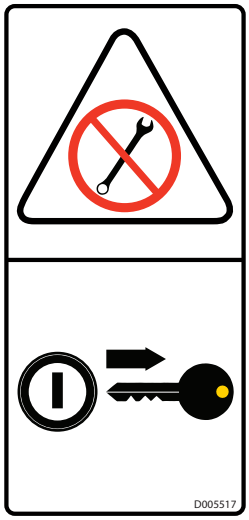
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D005262

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



G. D003190 ⚠ 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.

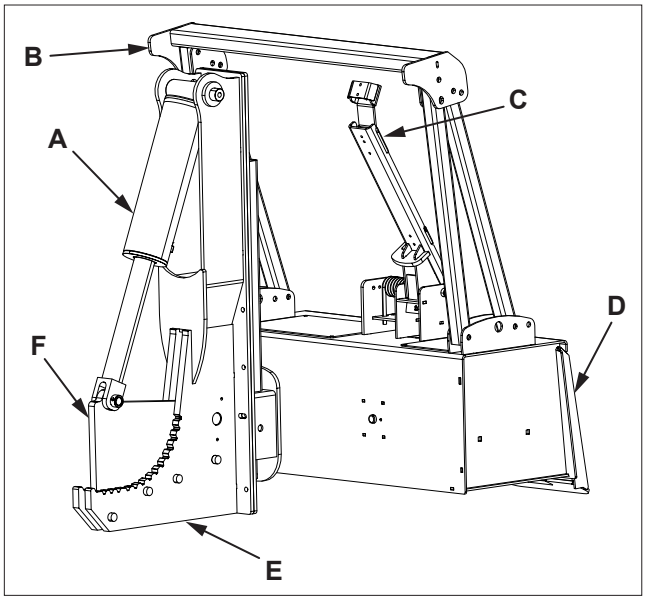
You must connect your skidsteer pressure and return hoses to tree shear hoses.

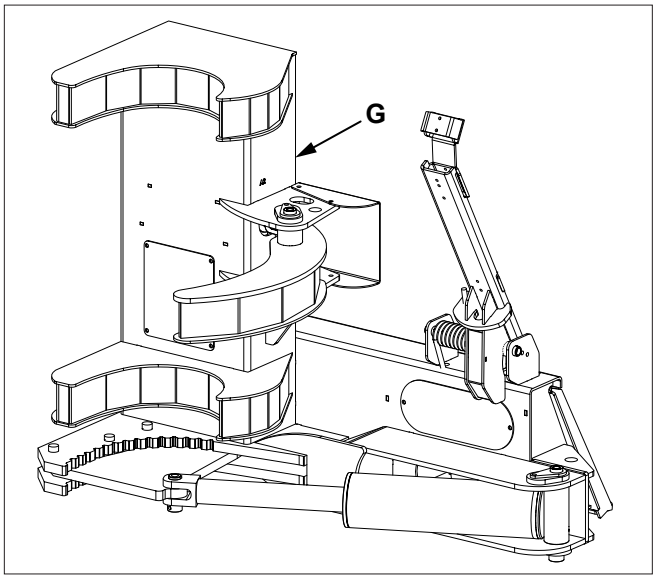
Fitting Size	Hose Description	Qty.
3/8 JIC FM	1/2 in. Top Cylinder Hose	2
3/8 JIC FM	3/8 in. Blade Cylinder Hose	2
3/8 JIC FM	1/4 in. Rotate Cylinder Hose	2

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.**

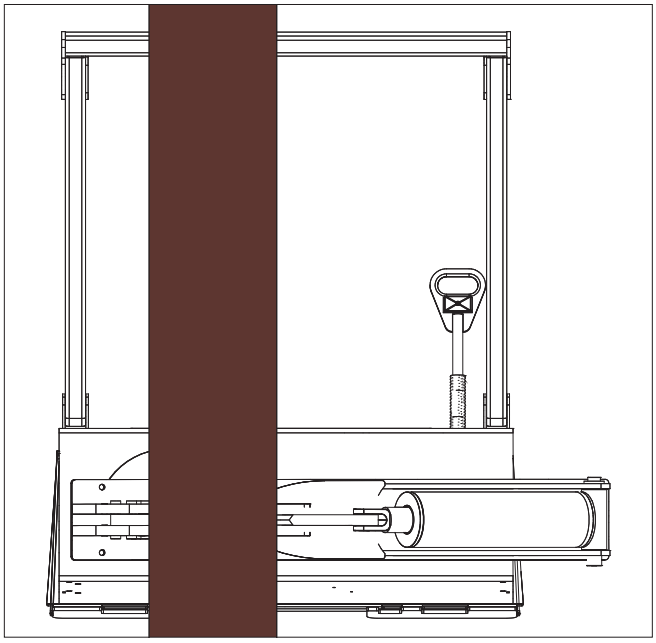
WARNING

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

Keep all shields in place.

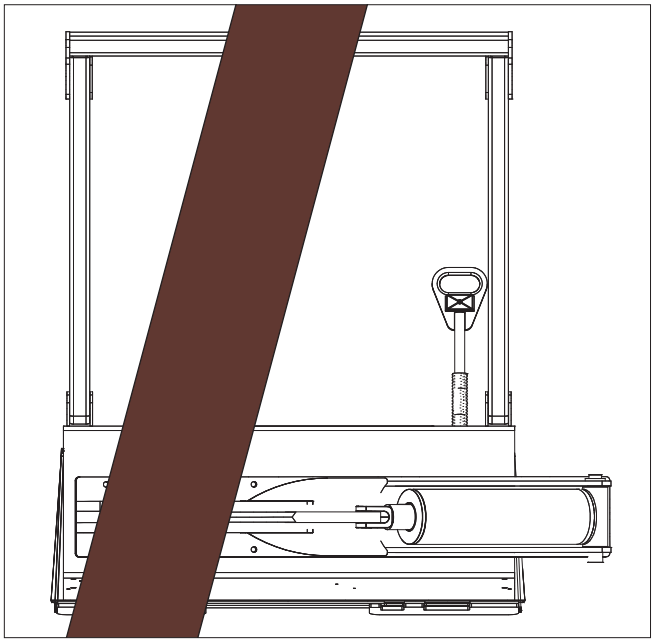
Do not allow riders on skidsteer.

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

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.



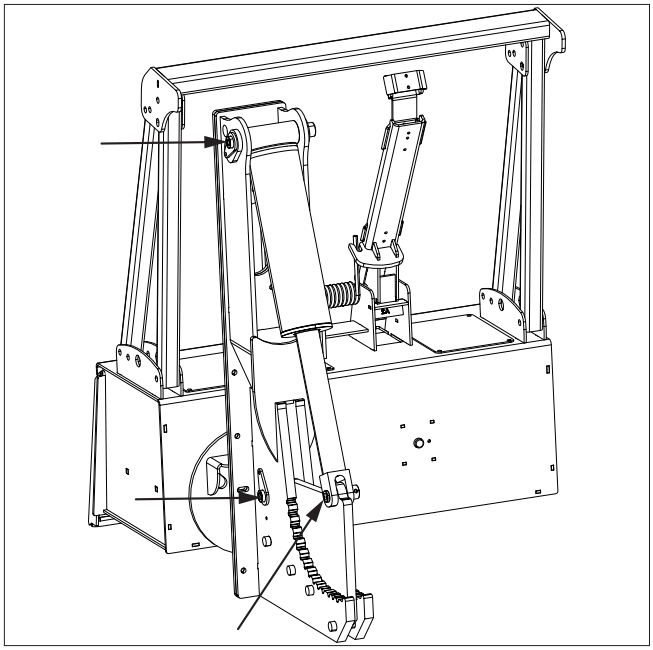
5.1 Lubrication

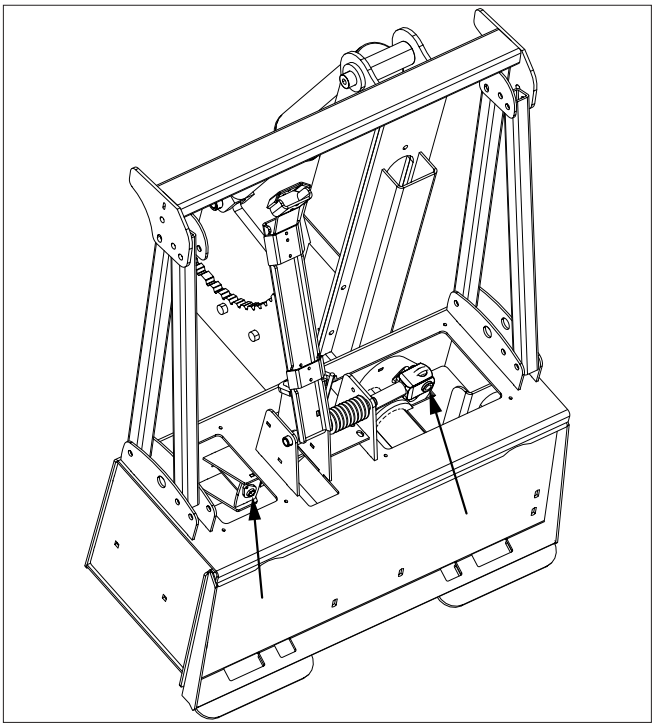
⚠ WARNING

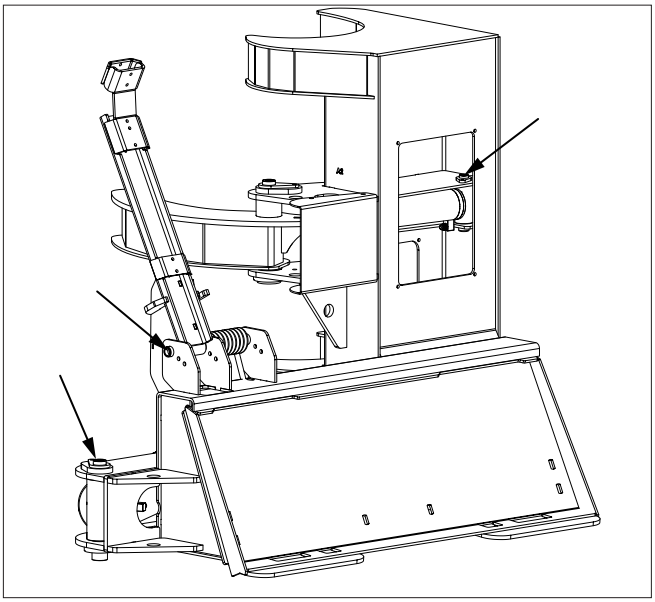
Prevent serious injury or death caused by unexpected movement:

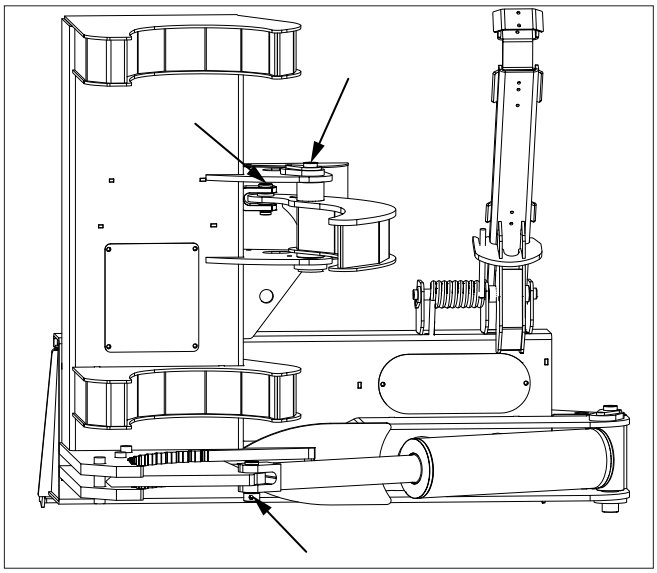
1. **Park skidsteer on a level surface.**
2. **Lower shear to ground.**
3. **Engage skidsteer parking brake.**
4. **Shut off engine and remove key.**

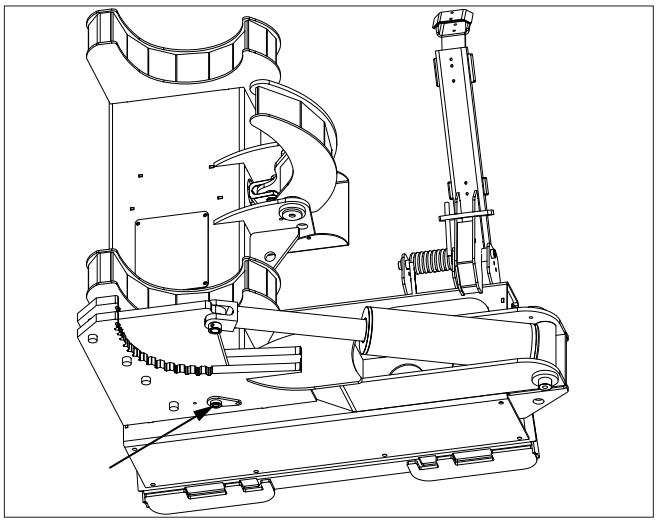
1. Pump grease into all pivot point lubrication fittings until adequately lubricated.











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 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