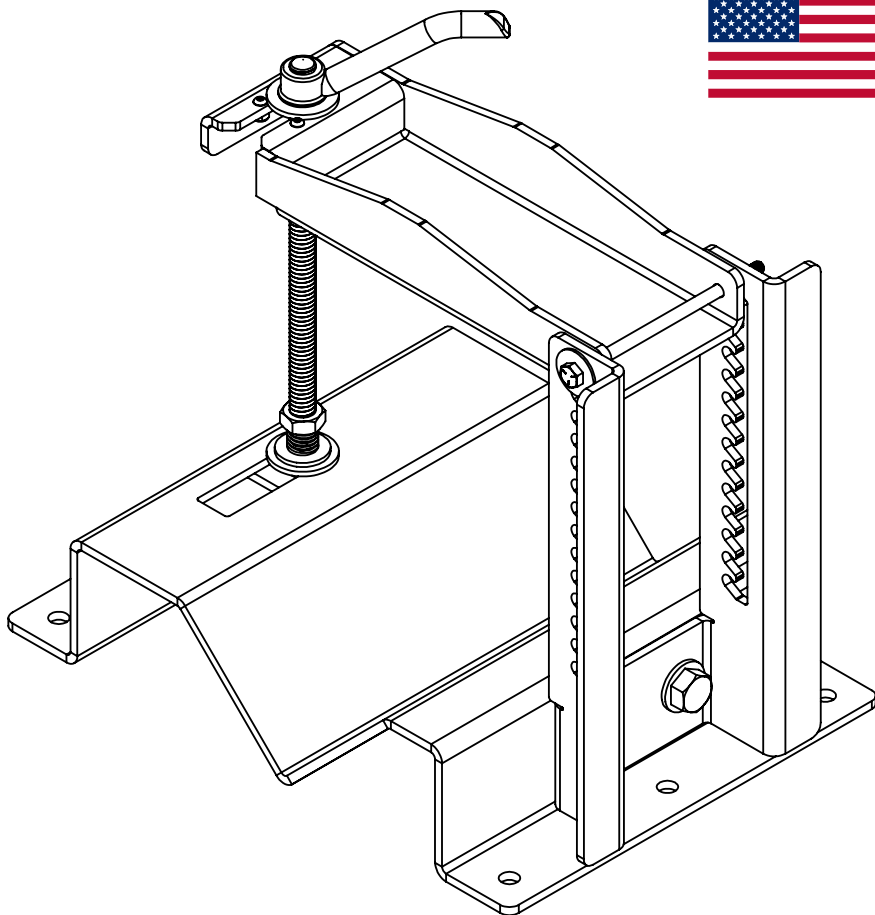


LUMBERJACK TOOLS

made in usa



USER MANUAL Log Lock XL Easy Clamp Fixture

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Phone: 715-720-4719
Rev: 02/17



MODEL: LL2580

About Your Product

Thank you for purchasing our Log Lock XL clamping fixture!

Lumberjack engineers, along with our craftsmen, have designed the safest, easiest to-use clamping fixture on the market. By combining old-world skills with modern design and manufacturing techniques, we have greatly reduced issues with log slippage while cutting tenons.

Once properly secured and set up, the Log Lock XL will hold logs and other timbers in place with ease. The newly designed ladder feature and fast release allows the top securing plate to be quickly adjusted to different timber diameters. The fixture plates are laser cut from structural steel and folded in a press brake to ensure proper clamping in every use.



Our lifetime guarantee covers the fixture body. The nuts, bolts, washers and screw handle are covered for 90 days from the date of purchase for breakage under normal working conditions. Excessive log overhang, or side loading the fixture could cause failure to occur in the bolts. Over tightening of the top plate may bend the bolts or top plate as a result. This is valid only to the original buyer, and not for the tools sold secondhand, used, or sold “as is” to a second party.

What Voids Warranty

In order to keep our lifetime and 90 day warranty you must **AVOID** the following actions:

- Side loading the fixture
- Over tightening the screw handle
- Altering or misusing the fixture
- Unsupported log overhang of 24” or more

SAFETY

Before beginning any project, carefully read and follow ALL safety and operational instructions for any tools or devices you will be using. Failure to do so may cause physical harm to yourself or those around you. If you feel uncomfortable using power tools while using our clamp, STOP immediately. Lumberjack Tools assumes no responsibility for injury caused to the operator, bystander, or tools used in conjunction with the use or misuse of our Log Lock XL fixture.



NEVER OPERATE POWER TOOLS UNDER THE INFLUENCE OF DRUGS, ALCOHOL OR ANY MEDICATIONS



WEAR SAFETY GLASSES, DUST MASK, AND OTHER PERSONAL PROTECTION ITEMS AS REQUIRED



DO NOT WEAR LOOSE ITEMS THAT COULD POTENTIALLY BE CAUGHT IN MOVING PARTS AND KEEP LONG HAIR AWAY FROM



KEEP ALL THREADED AND MOVING PARTS CLEAN OF DUST AND DEBRIS

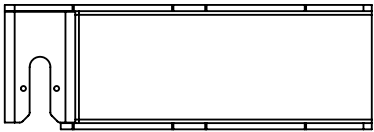
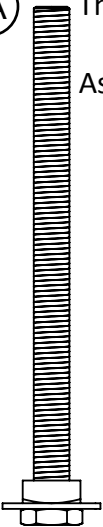

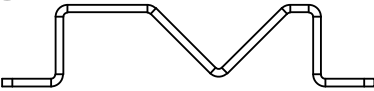
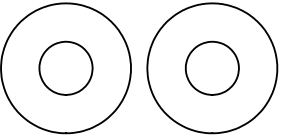
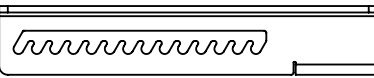

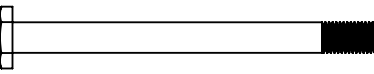

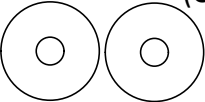
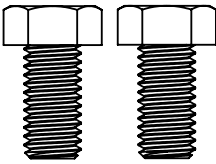
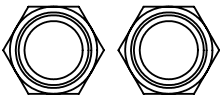
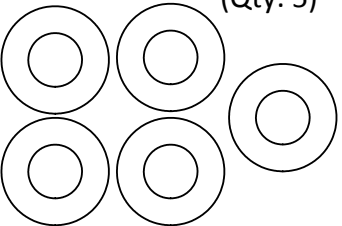
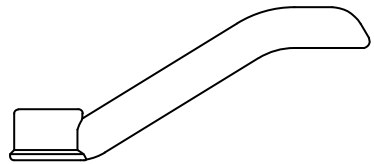
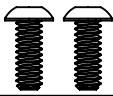

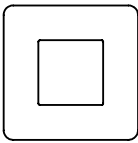


DO NOT PLACE ANY BODY PARTS INSIDE OF THE DEVICE WHILE TIGHTENING



NEVER USE FIXTURE WHEN NOT BOLTED TO A STABLE, SECURE SURFACE

What's Included

<p>1A Fixture Top (Qty. 1)</p> 	<p>2A Threaded Rod Assembly (Qty. 1)</p> 	<p>2B 1/2" Jam Nut (Qty. 1)</p> 
<p>1B Fixture Bottom (Qty. 1)</p> 		<p>2C 1/2" Large Washer (QTY. 2)</p> 
<p>1C Fixture Ladder (Qty. 1)</p> 		<p>2D 1/2" Spring (Qty. 1)</p> 
<p>3A 1/4" x 5" Bolt (Qty. 1)</p> 	<p>3B 1/4" Lock Nut (Qty. 1)</p> 	<p>3C 1/4" Washer (Qty. 2)</p> 
<p>4A 1/2" x 1" Bolt (Qty. 2)</p> 	<p>4B 1/2" Lock Nut (Qty. 2)</p> 	<p>4C 1/2" Small Washer (Qty. 5)</p> 
<p>5A 1/2" Handle (Qty. 1)</p> 	<p>6A #6 x 3/8" Button Screw (Qty. 2)</p> 	<p>6B #6 Lock Nut (Qty. 2)</p> 
<p>7A Square Washer (Qty. 1)</p> 	<p>Assembly Parts Not Included:</p> <ul style="list-style-type: none"> • 3/8" Lag Screws (Qty. 6) - Used for mounting fixture 	

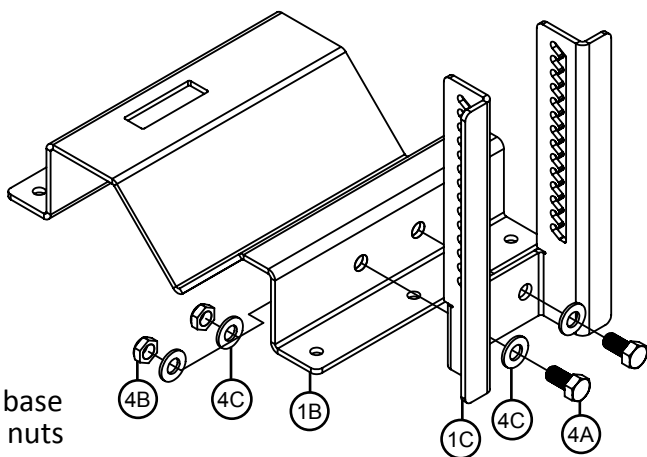
Note: Images not to scale

Assembly

- ## 1
- Build your Log Lock XL from “the ground up”. **DO NOT** screw down the fixture base until all parts are assembled.

Parts Needed:

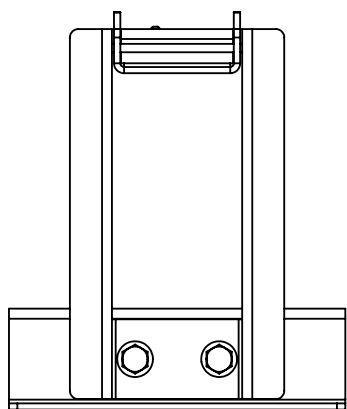
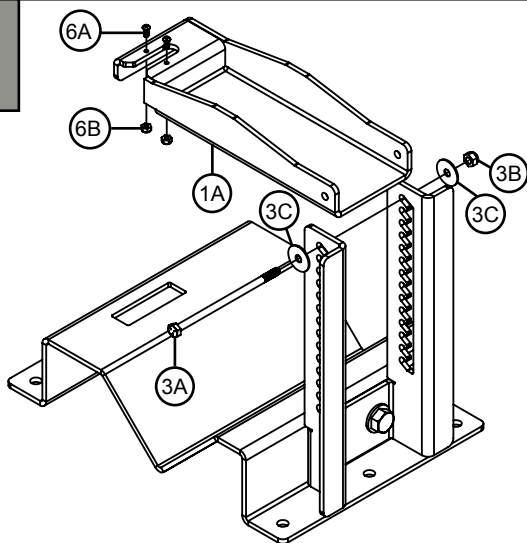
- Fixture Bottom (1B)
 - Fixture Ladder (1C)
 - 1/2" x 1" Bolts (4A)
 - 1/2" Lock Nuts (4B)
 - 1/2" Small Washers (4C)
- Secure the ladder to base
 - Use the 1/2" bolts, nuts & small 1/2" washers



2

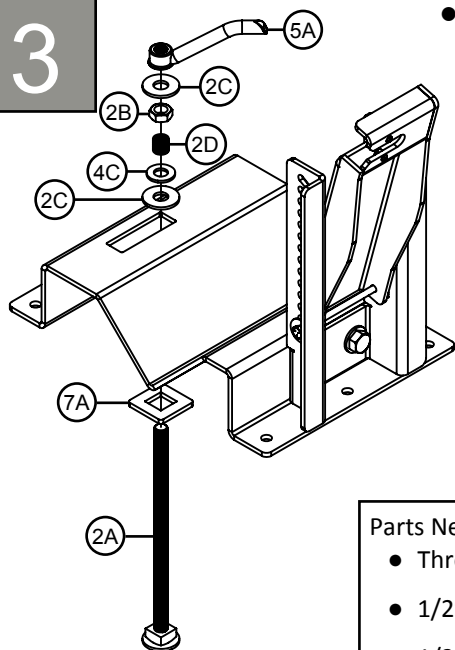
Parts Needed:

- Fixture Top (1A)
 - 1/4" x 5" Bolt (3A)
 - 1/4" Lock Nut (3B)
 - 1/4" Washers (3C)
 - #6 x 3/8" Screws (6A)
 - #6 Lock Nuts (6B)
- Secure the top to ladder
 - Use the 1/4" bolt, nut & washers
 - **DO NOT** overtighten!
 - Hand tighten, then loosen nut one full turn
 - Secure the #6 x 3/8" screws and nuts to the fixture top



Assembly Cont.

3



- Slide the square washer down the threaded rod assy. Then slide the rod through the slot in the bottom plate
- Slide a 1/2" large washer, a 1/2" small washer and the spring down the rod
- Tighten the jam nut until it begins to compress the spring
- **DO NOT** fully compress the spring (About 7 full turns of nut from first contact with spring)
- Install 1/2" large washer and screw handle to the top

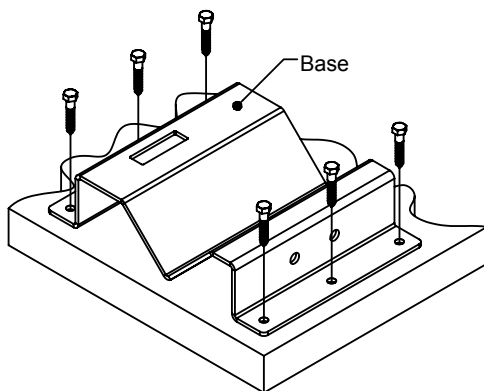
Parts Needed:

- Threaded Rod Assy. (2A)
- 1/2" Small Washer (4C)
- 1/2" Jam Nut (2B)
- 1/2" Handle (5A)
- 1/2" Large Washers (2C)
- Square Washer (7A)
- Spring (2D)

4

Mount the fixture so that the stationary base is either flush with the workbench or 1" behind the edge of the workbench.

- Use six 3/8" lag screws to secure the fixture to the workbench
- Make sure the workbench is flat and level
- Ensure the workbench is firmly secured and stable



*Some parts hidden for clarity

Parts Needed:

- 3/8" lag screws not included

Positioning a Log

How the log is placed in the in the clamp will determine how well the log will remain stationary while cutting and drilling. The more surface area of the log that comes into contact with the clamp, the more likely the log will remain secured.

- Some logs will be twisted and knotty making them difficult to secure
- Clamp difficult logs in an area with the fewest bends/obstructions



- Other timbers will be relatively straight and free of knots making them easy to secure

Clamping Pressure

Proper clamping pressure is **VERY IMPORTANT** when doing any type of woodworking project. If the clamp is too tight, there is a risk of damaging the clamp and the wood. If the clamp is too loose, the wood will not be secure and will spin.

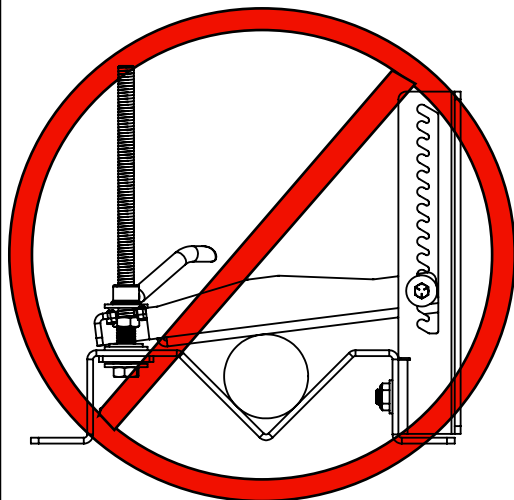
- When contact is first felt on the wood tighten the handle with one full turn. If the log can still be spun by hand, continue tightening the handle in half-turn increments until the wood is secured

If you notice the log start to wobble or looks like it may spin loose your current actions.



- Make sure the fixture is tight on the log
- Reposition the log so that it is more stable
- Try readjusting the ladder to better fit the log
- Avoid clamping on knots and uneven points on log

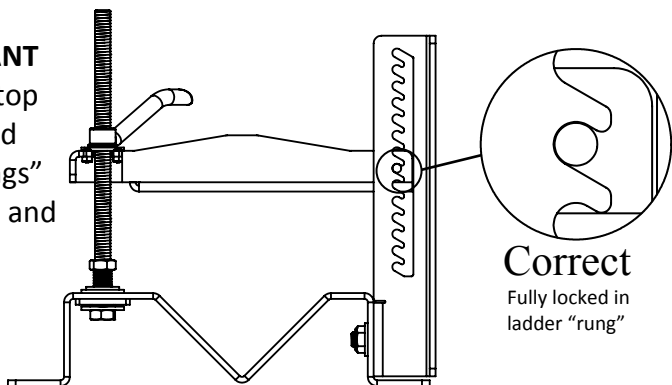
Improper Clamping



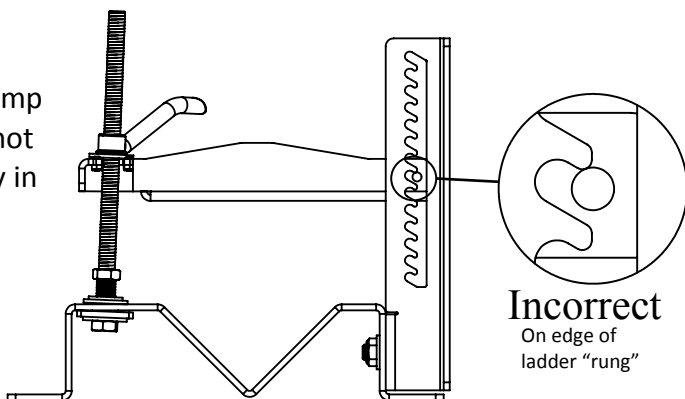
- **NEVER** have the top plate positioned with the handle end lower than the ladder end
- The handle end of the clamp plate should **ALWAYS** be higher than or equal to the ladder end of the clamp plate

Ladder Adjustment

- It is **VERY IMPORTANT** to always have the top plate securely locked into the ladder “rungs” on both sides (front and back)



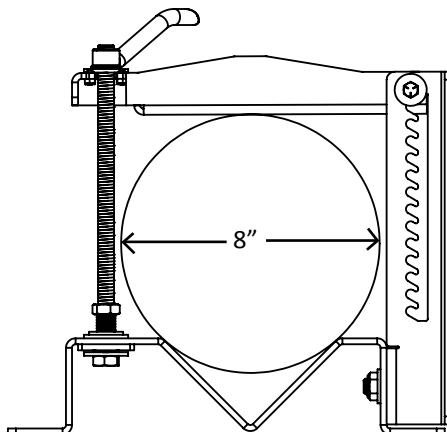
- **NEVER** operate clamp when top plate is not located completely in ladder “rungs”



Ladder Settings

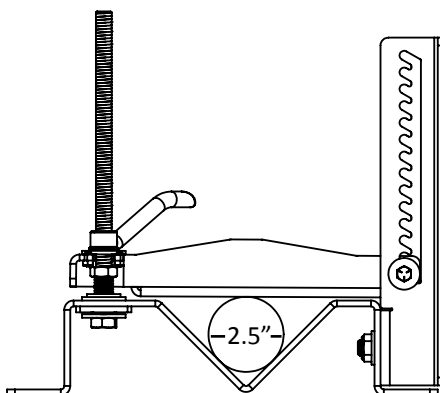
Correct (Maximum Capacity)

- 8" is the largest sized log this clamp can handle
- Lock the top plate into the highest section of the ladder
- As the handle begins to feel snug complete one full turn

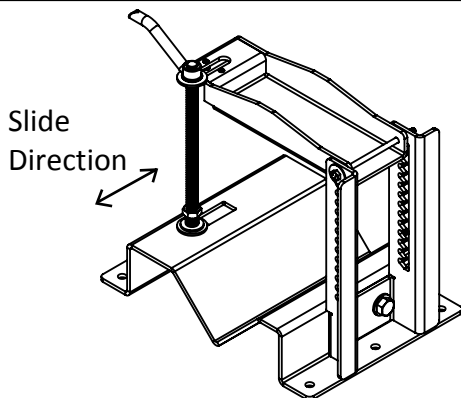


Correct (Minimum Capacity)

- 2 ½" is the smallest diameter that will fit securely
- Lock the top plate into the lowest section of the ladder
- As the handle begins to feel snug complete one full turn



Handle Slide

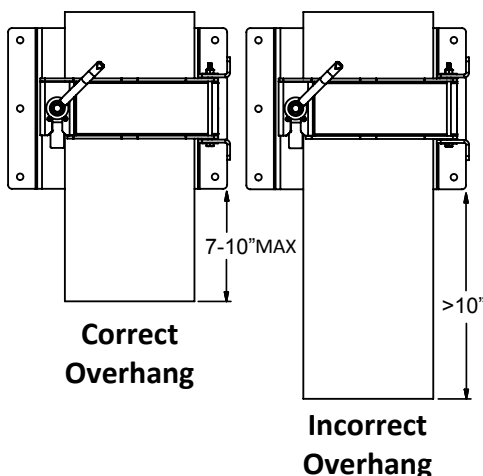


- The handle slide makes clamping /unclamping quick & easy
- Simply slide the handle in the slot to avoid fully unscrewing the handle to lift the top

Log Overhang

It is important to clamp logs so there is enough log sticking out to cut a tenon or perform another task. The key is to not have too much sticking out to where the log and clamp are unstable, but also not to have too little sticking out to where a full cut cannot be made.

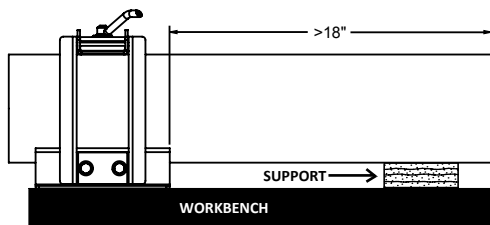
- 7"-10" is standard overhang
- **NEVER** have more than 10" of log overhang from the end of the Log Lock



Rear Support

When clamping logs over 18" long, we strongly recommend using a support to keep the back of the log level.

- An unsupported log may damage the Log Lock XL and/or the surface the Log Lock XL is mounted on



Additional Tips

- It takes time to master using these tools
- Make a plan of what you want to build before you begin
- Have a list of all tools and materials you will need
- Do not over complicate your first few projects
- Practice reading the natural twists and defects in the wood
- Practice clamping different types of logs

Maintenance

Always clean your Log Lock after each use. If you are unable to clean your Log Lock after each use, clean the fixture on a monthly basis to maintain regular, safe function.

- **Fixture**

- Cleaning

- Keep the fixture body clean of sap, sawdust and other debris
- Clean the fixture with a solvent (such as mineral spirits)
- Failure to clean could lead to log spin during next use

- **Fasteners**

- Inspection

- Check for visible thread damage
- Do any of the bolts appear bent or deformed?
- Replace any damage nut, bolt or washer to reduce risk of damage

- Oiling

- Apply oil to the hinge bolt & screw handle on a monthly basis

- **Mounting**

- Inspection

- Make sure the lag screws securing the fixture to the workbench are still holding properly
- Remove any debris between the workbench and fixture
- Is the workbench still level and stable?
- Replace any broken screws
- Tighten any loose screws

TASK	EACH USE	MONTHLY
Clean “V” trough	X	
Inspect bolts	X	
Inspect spring	X	
Inspect mounting lag screws	X	
Oil hinge & screw handle		X

Troubleshooting

PROBLEM	CAUSE	SOLUTION
• Log/Timber spins inside clamp	• Clamp is not applying enough pressure	• Tighten handle until log is secured
	• Top not oriented properly over log	• Adjust top in ladder to properly fit • Re-orient the log if needed
• Wobbling or Vibrating log in fixture	• Log sticking out too far from clamp	• Position log with no more than 7-10" of overhang
	• Fixture loose on base	• Re-tighten screws securing base
	• Workbench not stable	• Move fixture to more stable workbench
• Thread damage on carriage bolt	• Over-tightening the fixture	• Replace the damaged bolt and do not over tighten
• ¼" bolt bent	• Over-tightening the fixture • Uneven clamping (knots, etc)	• Replace the damaged bolt and do not over tighten
• Top not staying locked into ladder	• Top not oriented over log properly	• Adjust top so that the handle end is higher than the ladder end
	• Log orientation making it difficult to secure	• Re-orient the log and adjust the top as needed

Unexpected Occurrences

Engineers and Quality Control staff at Lumberjack Tools have provided you with one of the easiest to use and safest timber clamping devices on the market. However, there is always the unexpected chance of failure.

- Please contact our customer support for a replacement if a failure ever occurs in the top plate, bottom plate, or ladder

Thank you again for purchasing our tools!