



WOOD PROCESSING EQUIPMENT

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M A N U A L

**Homeowner and
Agricultural Models**

❖ TW-3 ❖ TW-3 HD

TIMBERWOLF
Manufacturing Corporation

Log Splitter
Operation Manual

Model TW-3

Model TW-3 HD

Fill out and submit Registration Form to ensure warranty coverage and receive product updates.

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Every effort has been made to ensure the accuracy of this document.

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The information in this document reflects current or planned product features, functions, and characteristics as of the publication date. Because of on-going product improvements and feature additions, information in this document is subject to change without notice.

Rev 03/02

About the Manual

Thank you for buying a Timberwolf Manufacturing Corporation log splitter. This splitter is made with high quality components and will provide years of service under normal working conditions.

Please read this entire manual before you operate the machine. If you have any questions regarding assembly, use, safety, or maintenance, please call Timberwolf Manufacturing Corp. at 802-775-4227.

Safety Note

Please take time to read this manual and learn how operate and maintain the log splitter safely. The log splitter is a powerful piece of equipment that can generate more than 50,000 pounds of force. Incorrect use of the log splitter can cause serious injury or death.

Read Entire Manual Before **Operating the** **Log Splitter**

Attention Rental Companies

It is extremely important that any person who operates this equipment has access to and has read the operator's manual. Timberwolf Manufacturing Corporation strongly urges you to keep the manual with the splitter at all times, and to instruct all persons who will operate this machine to read the manual.

Caution!

Residual Hydraulic Energy

Residual energy must be released from the pressurized hydraulic fluid before any maintenance or repair work is done on the log splitter. Hydraulic fluid can remain highly pressurized even while the splitter's motor is off. Escaping pressurized hydraulic fluid can penetrate skin and cause serious injury.

To release residual hydraulic energy:

1. Shut off tractor motor.
 2. Move control valve back and forth, from one limit of travel to the other, at least four times.
 3. Hold valve for three seconds at each limit of travel.
-

Record your log splitter's ID numbers here:

Model # _____

Serial # _____

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Protect the investment you've made in a Timberwolf Manufacturing log splitter.

Fill out the Registration Form and send it to us by mail or Fax to ensure your warranty coverage and enable you to receive product updates.

All warning stickers and hazard triangles should be secured and clearly visible at all times. Please check decals daily.

Replacement safety and warning stickers are available free of charge from Timberwolf Manufacturing. Warning stickers include: **One Man Operation, Caution, Warning** (auto cycle machines only), and **Keep Feet Away** (machines with log lift only).

About Your Timberwolf Log Splitter

General

This manual covers Timberwolf Manufacturing Corporation's family of convenient, tractor-mounted log splitters:

- **TW-3** – provides 17 tons of force and 6-second cycle times with its 20 GPM pump, 4 inch cylinder, and 7.5 gallon hydraulic tank.
- **TW-3HD** – provides 22 tons of force and 10-second cycle times with its 20 GPM pump, 5 inch cylinder, and 15 gallon hydraulic tank.

These log splitters mount on a tractor's three-point hitch and are driven by the tractor's power take-off. They are available with a variety of standard and optional features that increase production by making them more versatile and convenient to use.



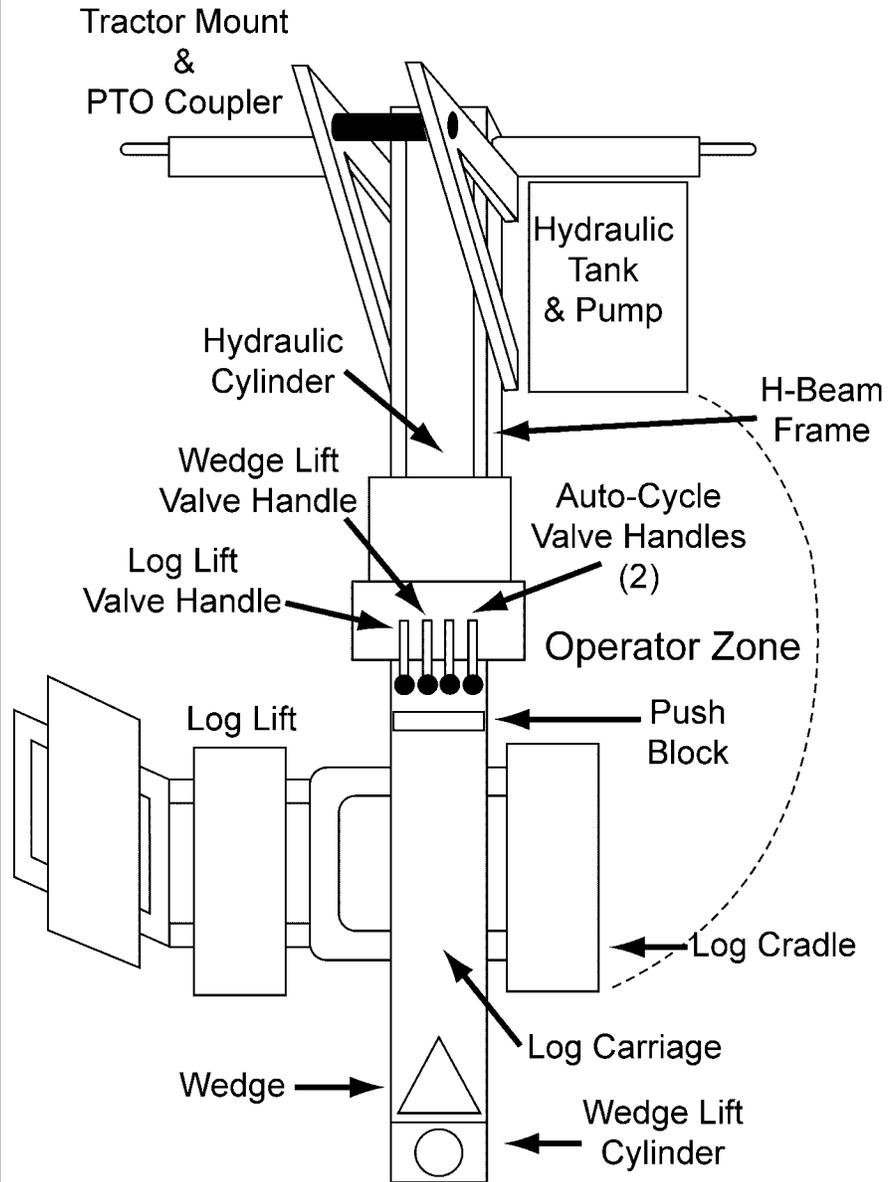
TW-3

Don't forget to fill out and submit your Log Splitter's registration form.

General Description

The next two drawings identify the log-splitter's parts by the names this manual uses for them.

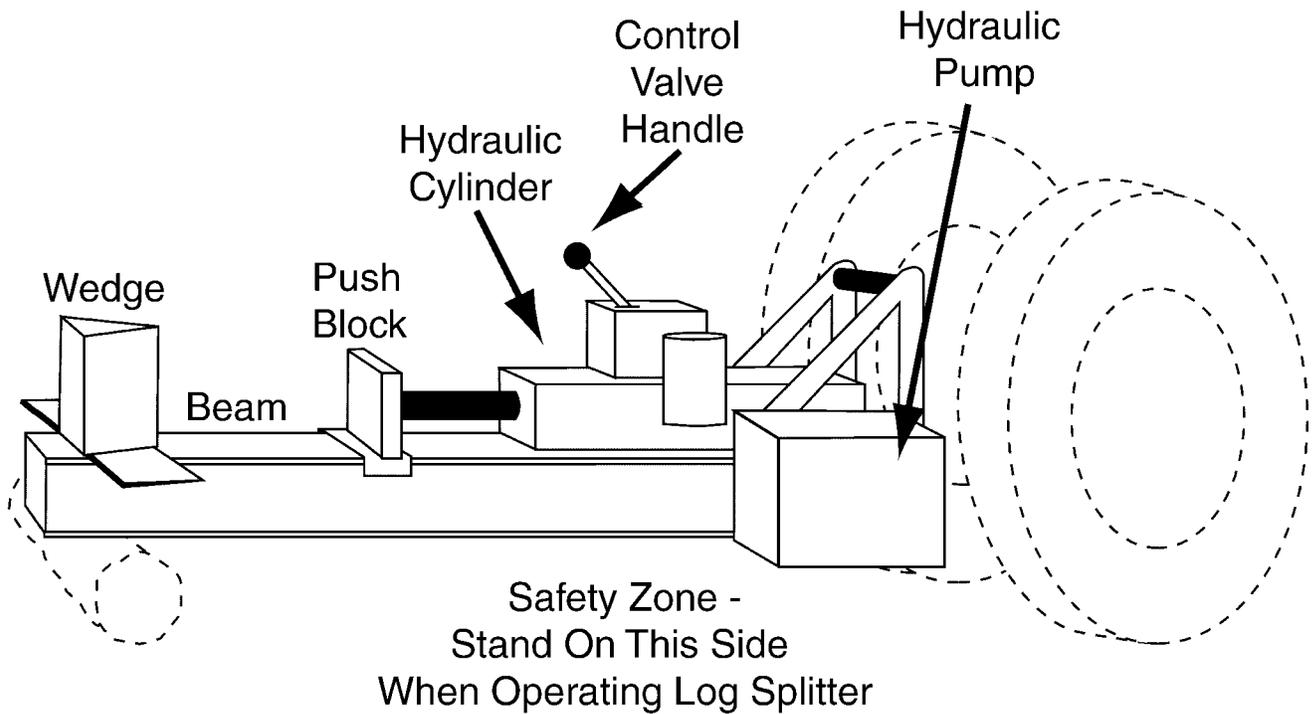
TW-3 HD Components:



⚠ CAUTION

Operator Zone identifies area to stand in while operating the log splitter. Do not reach across to the controls from anywhere else.

TW-3 Components:



H-beam Frame	<ul style="list-style-type: none"> • Frame and log carriage is an H-beam. • H-beam configuration is stronger and more rigid than equivalent-size I-beam. • TW-3 log splitter is built on a 5" x 5" H-beam. • TW-3 HD log splitter is built on a 6 1/2" x 8" H-beam.
PTO-driven Hydraulic Pump	<p>Timberwolf three-point hitch log splitters use a PTO shaft mounted hydraulic pump.</p> <p>Can be powered by PTO running at either –</p> <ul style="list-style-type: none"> • 540 RPM <p>OR</p> <ul style="list-style-type: none"> • 1000 RPM

Single Handle Valve

TW-3 and TW-3 HD log splitters use a single-handle hydraulic control valve as standard equipment.

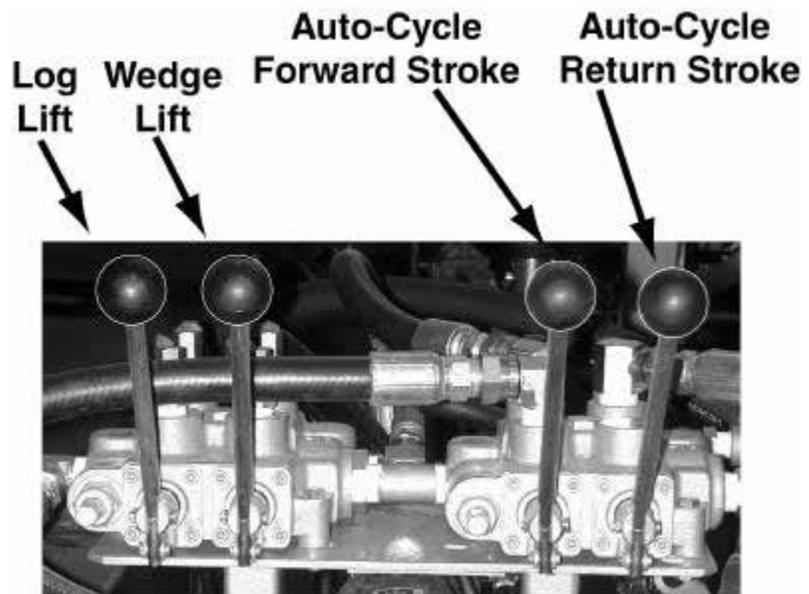


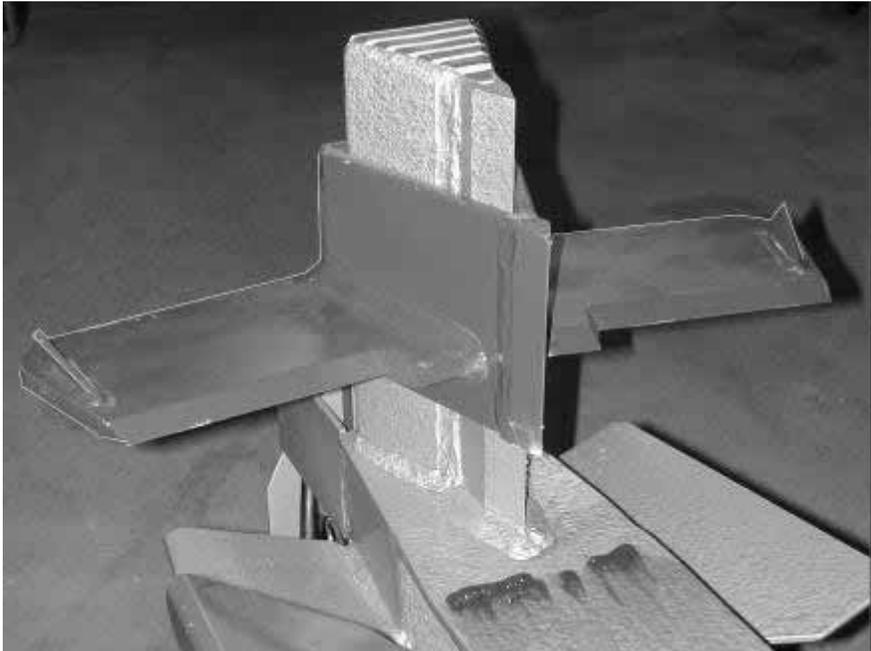
- Push block travels forward only while valve handle is held in position.
- Cylinder automatically completes return stroke when valve handle is pushed back to détente position and released.

Auto-cycle Valve

The auto-cycle hydraulic control valve is available as an option for the TW-3 HD log splitter. An auto-cycle valve frees you to get the next log ready while one is being split.

- Hold down Auto-cycle Forward and Return valve handles, cylinder starts push block forward.
- Release valve handles as log begins to split.



	<ul style="list-style-type: none"> • Cylinder automatically completes forward and return strokes, leaving push block set for next cycle. • Forward and return valve handles pop up separately at end of forward and return strokes.
<p>Wedges</p>	<ul style="list-style-type: none"> • All Timberwolf log splitters have a permanently installed, single-blade, fixed wedge. • By itself, the fixed wedge splits logs into two pieces. • There are also two slip-on wedges and a wedge lift feature available for greater versatility and control. <p style="text-align: center;"><u>NOTE</u></p> <p style="text-align: center;">Do not use a slip-on wedge with logs that have more than one knot or that have twisted grain.</p>
<p>Four-way Slip-on Wedge</p>	<ul style="list-style-type: none"> • Available as an option for the TW-3 log splitter; standard on the TW-3 HD log splitter. • Splits log into quarters on each cycle. • Handles logs up to 24 inches in diameter. • Can be put on either of two ways for different splitting heights. 

Six-way Slip-on Wedge

- Splits log into six pieces with one thrust of the ram.
- Handles logs up to 24 inches in diameter.
- For use with 5" and larger hydraulic cylinder.



- Optional on TW-3 HD.
- Not available on TW-3.

Hydraulic Wedge Lift

- Moves slip-on wedge up and down for best splitting position.

Fixed Position
Single-Blade
Wedge

Wedge Lift
Cylinder



	<ul style="list-style-type: none"> • 4 inches of vertical adjustment. • 2 inch hydraulic cylinder. • One-lever hydraulic control. • Optional on TW-3 HD. • Not available on TW-3.
<p>Log Cradle</p>	<ul style="list-style-type: none"> • Steadies log on beam. • Standard on all log splitters: • Heavy duty bolt-on cradle panels. • Two panels, one each side of beam, when Log Lift not installed. • One panel opposite installed Log Lift.
<p>Hydraulic Log Lift</p>	<ul style="list-style-type: none"> • Lifts log from ground and tips onto beam. • Lifts up to 500 pounds. <div data-bbox="711 930 1474 1503" data-label="Image"> </div> <ul style="list-style-type: none"> • One-lever hydraulic control. • Optional on TW-3 HD. • Not available on TW-3. <p style="text-align: center;"><u>!</u> CAUTION</p> <p style="text-align: center;">Use the Log Lift only for picking up logs. Never let anyone ride on the Log Lift.</p>

Specifications		
Models:	TW-3	TW-3 HD
Weight –	300 lb.	525 lb.
Splitting Force –	17 tons	22 tons
Hydraulic Pump –	20 gpm	20 gpm
Hydraulic Tank –	7.5 gallons	15 gallons
Max. Log Length –	26 inches	26 inches
Cylinder Size –	24 x 4 x 2 in.	24 x 5 x 2 in.
Cycle Time –	6 seconds	10 seconds
Frame –	5 in. x 5 in.	6.5 in. x 8 in.

Features		
Models:	TW-3	TW-3 HD
Auto Cycle Valve –	N/A	Optional
4-way Wedge –	Optional	Standard
6-way Wedge –	N/A	Optional
Wedge Lift –	N/A	Optional
Log Lift –	N/A	Optional
Log Cradles –	Standard	Standard

Important Safety Instructions

What You SHOULD Do

- Read this manual before you operate the log splitter.
- Locate log splitter only on firm, level ground. Site must be free of slippery surfaces and tripping obstacles.
- Only operate the log splitter outdoors or in a well-ventilated area. The motor emits colorless, odorless carbon monoxide gas that can cause fatal poisoning.
- Only operate the log splitter in a well-lit area.
- Always wear personal protective equipment –
 - Goggles or face shield for eye protection
 - Ear plugs or hearing protectors
 - Snug-fitting work gloves (loose gloves increase risk of snagging)
 - Safety shoes.
- Keep hands and feet clear of splitting area while the push block is in motion.

What You SHOULD NOT Do

- Never split anything other than logs.
- Don't handle logs by their ends when you position them.



You don't want your hands at pinch points where they can get caught between a log and the wedge, push block, or log cradle.

<p>What You SHOULD NOT Do</p>	<ul style="list-style-type: none"> • Don't put any part of yourself, your clothing, or your personal protective equipment into a crack in a log that's being split; it might close suddenly and with great force. • Don't put anything between the log cradle and the side of a log; logs spread as they're forced against the wedge. • Do not straddle or climb over the log splitter at any time. • Do not move or reposition the log splitter with the PTO engaged. • Do not modify or alter the machine in any way at any time.
<p>What You SHOULD <u>NEVER</u> Do</p>	<ul style="list-style-type: none"> • Never team up with another person to operate the log splitter controls – it's a one-person job. • Never operate log splitter under the influence of alcohol, drugs, or medication. • Never allow an untrained operator to use the log splitter. • Never allow anyone under age eighteen to operate the log splitter. • Never leave log splitter unattended with the PTO engaged.

Hydraulic Safety

WARNING

Escaping pressurized fluid from hydraulic system leaks can have enough force to penetrate skin and cause serious injury or death.

Hydraulic fluid can remain highly pressurized while splitter motor is off.

Never use your hand or any part of your body to check for hydraulic system leaks while the system is pressurized.

Get professional medical help at once if hydraulic oil penetrates anyone's skin.

Always release residual energy from pressurized hydraulic fluid before doing any maintenance or repair work on the log splitter.

<p>What You SHOULD Do</p>	<ul style="list-style-type: none"> • Inspect hydraulic hoses every day – check for worn, frayed, kinked, and cracked areas. • Replace any damaged or worn hoses. • Use sheet of cardboard or log to check for hydraulic leaks while system is running. • Depressurize system to release residual hydraulic energy before starting any repairs. <ol style="list-style-type: none"> 1. Shut off tractor motor. 2. Move control valve handle back and forth, from one limit of travel to the other, at least four times. 3. Hold valve for three seconds at each limit of travel. • Contact Timberwolf Manufacturing Corp. or a qualified hydraulic mechanic to replace worn components.
<p>What You SHOULD NOT Do</p>	<ul style="list-style-type: none"> • Do not make any adjustments to the pressure relief valve. • Never remove cap from hydraulic tank while motor is running or while tank is still warm after motor is shut off. Hot pressurized oil can cause serious injury, so wait for hydraulic tank to cool before removing cap. • Never use any connectors, valves, or fittings that are different from the ones originally installed on the log splitter.

Before You Start the Log Splitter

Location

- Place log splitter on level ground, in a well lit, well ventilated spot.
- Check around log splitter for hazards. Make sure there are no slippery surfaces or objects to trip over in the area.
- Make sure there won't be people or animals in the area around the log splitter.

Check Fluids

- Hydraulic oil should be two inches below the top of the tank if you use SAE 30 or 10W 30.
- If hydraulic oil is low, top up with 10W Hydraulic oil.
- For operation at temperatures below 20° F Timberwolf recommends use of Randall 46 (Texaco).

Operating Instructions

Start Up

- Start tractor motor.

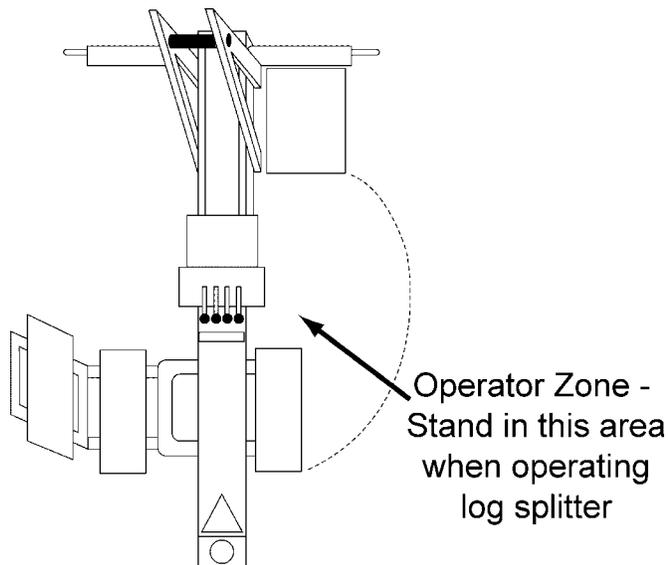
NOTE

See tractor manufacturer's manual for motor starting and maintenance instructions.

- Run motor at idle for 10 – 15 minutes to let hydraulic oil warm up.

Splitting Safety

- Always stand inside the **Operator Zone** to run the log splitter. That's the area between the well and the control valve. Never operate the log splitter from anyplace else, including the area in front of the valve handle.



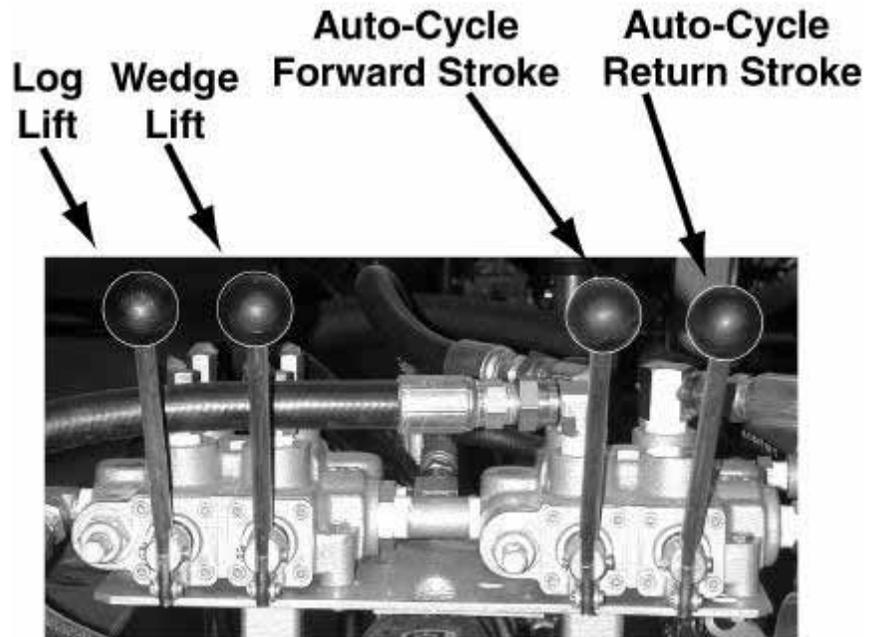
- Handle logs only from the sides; never by the ends.
- For best splitting results, place log on beam with butt end toward hydraulic cylinder.
- Put one hand on top of log in the middle to keep it steady until it's held firmly between push block and wedge – then get your hand out of there.
- Be very careful to keep arms and fingers away from the wedge and push block. Keep hands and fingers clear at **all** times. Many log-splitting accidents happen on the return portion of the stroke.

- Don't put any part of your body within the splitting area. Use a stick if you need to remove debris from the splitting area.

**Controls –
Auto-cycle,
Log & Wedge Lifts**

Auto-cycle valve, log lift, and wedge lift are available as options on the TW-3 HD log splitter.

Fully optioned TW-3 HD log splitters have all four of the control valve handles shown below. A TW-3 HD may have any combination of lifts and cycle controls.



Log Lift	Wedge Lift	Auto-cycle Valve	
Push to raise	Push to raise	Push for manual retract	
Pull to lower	Pull to lower	Pull & release to split	Pull & release for auto retract

NOTE

Pull and release both handles at once for auto-cycle operation. For manual operation, use only left auto-cycle handle.

Controls – Single Handle

The TW-3 log splitter is equipped with the single handle control shown below.



Single Handle Valve
Push & release for auto retract
Pull & hold to split

Loading

- For best splitting results, place logs on beam with butt end toward hydraulic cylinder.
- **Log lift operation:**
 - Stand in the operator zone when raising or lowering log lift.
 - Log lift only moves while handle is held in position.
 - Pull handle to lower log lift.
 - With lift fully lowered, go around the log splitter and roll log onto lifting platform.
 - Return to operator zone.
 - Raise lift by pushing handle; hold until log rolls onto beam.
 - Keep lift raised until log is securely held between push block and wedge.

Wedge Positioning	4-way and 6-way wedges (6-way for TW-3 HD only) can be installed with either end up. Installed position determines height of wedge cross pieces. Wedge installation is the only height adjustment on the TW-3 log splitter.
Hydraulic Wedge Lift	<p>The hydraulic wedge lift provides four inches of vertical adjustment so you can reposition the wedge for each log to get best results. It's available as an option on the TW-3 HD log splitter.</p> <ul style="list-style-type: none"> • Wedge lift operation: <ul style="list-style-type: none"> • Wedge lift only moves while you hold the handle in position. • Push to raise; pull to lower. • Position wedge before you start the push block forward.
Splitting with Auto-cycle Valve	<ul style="list-style-type: none"> • Activate control valves – push both handles forward into locked position. • Release control valve handles when wedge starts into log – handles stay in locked position. • While auto-cycle completes you can get the next log ready or clear split pieces away from the wedge area. • Forward control valve handle pops up and push block starts return stroke when push block reaches full extension, one or two inches from wedge. • Return control valve handle stays in locked position until push block fully retracts, then pops up. • At start of return stroke make sure nothing will interfere with push block while it retracts. • To stop push block in mid-cycle, pull back on control valve handle(s) – <ul style="list-style-type: none"> • Pull back both handles to stop forward stroke. • Push both handles forward to resume forward stroke. • Push return control valve handle forward to retract push block.

Splitting with Single Handle Valve

- Activate control valve – push handle forward and hold.
- Steady log until it's held firmly between push block and wedge, then get your hand out of there.
- Keep holding valve handle down until split pieces fall away or push block reaches full extension, one or two inches from wedge.
- Before starting return stroke, let hydraulic system recover by moving valve handle to neutral position for a moment.
- Make sure nothing will interfere with push block while it retracts.
- Press valve handle backward into locked position and let go. Push block returns by itself.
- Valve handle stays in locked position until push block is fully retracted.
- To stop push block –
 - During forward stroke, release control handle.
 - During return stroke, push control handle forward to release it from the locked position.

NOTE

Operate single handle hydraulic control valve smoothly. Allow a short pause when reversing directions, then press lever firmly in direction you need to go. Slamming valve lever in either direction makes the system wear out faster.

Transporting the Log Splitter

Preparation

- Remove optional four-way or six-way wedge and transport it separately.
- Make sure there are no loose parts or debris on the log splitter to fall off while it's being moved.
- Never move the log splitter with a log on it.

Maintenance

 **WARNING**

Make sure PTO is shut off and hydraulic system is depressurized before you perform any maintenance. Make sure hydraulic oil has cooled. Read “Safety” section of this manual before performing any repairs.

Hydraulic Oil

- Regular changes after every 200 hours of operation

NOTE

If hydraulic oil becomes contaminated it should be changed immediately.

Hydraulic Oil Filter

- First change after first 25 hours of operation
- Regular changes after every 50 hours of operation

Push Block

- Grease assembly daily to reduce wear on beam and sides.
- Use any high-grade tube grease.
- Replace wear plates (also called "gibbs") if push block can be raised more than one quarter inch off the beam.

Wedge

- Sharpen wedges regularly with file or grinder.

Daily Maintenance

General	<ul style="list-style-type: none"> • Check all nuts, bolts, and welds to be sure that the frame and components are secure. • Make sure that the wear plates attached to the push block are firmly bolted in place.
Grease	<ul style="list-style-type: none"> • Make sure push block and top of beam are well lubricated with grease. • Grease push block at grease fittings. • Smear grease across top of beam.
Hydraulic Hoses	<ul style="list-style-type: none"> • Inspect hydraulic hoses for frayed, worn, kinked, or abraded areas. • Replace any damaged or worn hydraulic hoses immediately. <p style="text-align: center;"> WARNING</p> <p style="text-align: center;">Make sure system is depressurized before you do any hydraulic system repairs. See Hydraulic Safety in the Safety section.</p>

Annual Maintenance

Grease	<ul style="list-style-type: none"> • Grease wheel bearings annually. • Grease wheel bearings after any trip longer than 50 miles.
Hydraulics	<ul style="list-style-type: none"> • Change hydraulic oil annually. • Change hydraulic oil filter annually. <p style="text-align: center;"> WARNING</p> <p style="text-align: center;">Make sure system is depressurized before you do any hydraulic system repairs. See Hydraulic Safety in the Safety section.</p>

Troubleshooting

Seal Kit Installation – Auto-cycle Valve

If valve is leaking from the back of the détente block, then the large O-rings can be replaced without disturbing the détente block.

Rear O-ring Replacement

1. Remove cotter pin from the handle where it connects to valve spool.
2. Remove 4 screws from rear of détente block and slide entire spool with détente block still attached out the back of the valve.
3. Slide old O-rings off the spool.
4. Check for any burrs in the recessed area where O-ring seats on the back of the main valve body. If you find burrs, remove them with sandpaper
5. Slide new O-rings onto the spool.

Front O-ring Replacement

1. Remove 4 screws from front plate and slide plate over the end of the spool.
2. Slide old O-rings off the spool.
3. Slide new O-rings onto the spool.

Détente Plunger O-ring Replacement

If auto cycle valve leaks from the top of the détentes, the O-rings on the détente plunger must be replaced.

To replace détente plunger O-rings:

1. Turn 7/8" base nut on détente spring assembly counter-clockwise and remove the assembly.
2. Use needle nose pliers to remove inner détente plunger.
3. Replace small O-rings and plastic spacers on inner plunger.
4. Use needle nose pliers to replace inner détente plunger.
5. Reposition détente spring assembly and turn 7/8" base nut on clockwise.

6. If oil still leaks from the top holes, détente block must be removed from the back of the valves.
7. Remove the Allen screw from the center of the valve spool and slide détente block off the back of the spool.
8. Be careful not to lose the ball bearing in the bottom of the détente block.
9. Once the détente block is removed, you can push the outer plunger up through the détente hole.
10. Now the large détente O-ring can be replaced on this plunger.

NOTE

If the valve is leaking between the détente block and the valve body, then either the large O-ring on the spool or the small O-ring on the détente block face must be replaced.

**Auto-Cycle Valve
Détente Adjustment**

Several things you need to know before you adjust the détentes for the auto-cycle valve:

- Auto-cycle valve will not function properly if the forward détente is adjusted so the handles can be released before the wedge starts into the log.
- Valve setting should not let you release handles before log is firmly held between ram and wedge.
- Correct auto-cycle valve setting requires you to hold the handles until the wedge starts into the log and the log begins to split.
- You should then be able to release the handles while the valves automatically advance and retract the ram through the rest of the cycle.
- Normally you need to adjust both détentes to make the auto cycle work properly.
- Make all adjustments with the log splitter at normal operating temperature.

The détentes to each spool on the auto cycle must be adjusted periodically, depending upon use. Below is a trouble-shooting chart.

NOTE

When directions refer to the left and right sides of the valve, it means looking at the valve from the wedge end.

**Problems/
Solutions**

Cylinder will not extend completely on normal log.

- Adjust détente on left side of valve.
- Turn the screw clockwise, a quarter turn at a time, until handle will stay forward through the entire stroke.

NOTE

If the engine slows way down before it can kick the lever into the neutral position, the détente is turned too far in.

Cylinder will not return all the way.

- Adjust détente on right side of valve.
- Turn the screw clockwise, a quarter turn at a time, until cylinder will return on its own.

Both handles kick to neutral when cylinder completes outward stroke.

- Turn left détente counter-clockwise to reduce pressure on forward détente.
- Or turn right détente clockwise to increase spring pressure.

Right or left valve handle will not kick back to neutral position.

- Turn détente counter-clockwise a quarter turn at a time.
- If that doesn't work, remove entire détente assembly, check for dirt or broken parts.

Limited Warranty

Product Covered:

This warranty is for Timberwolf and/or Valley Wood Processing branded log splitters, conveyors, wood processors, ride-on equipment and their attachments or accessories.

Date Warranty Begins:

The warranty begins on the date of sale and is warranted by Timberwolf Mfg. Corp. to the original purchaser only.

What We Will Do for You:

We or your authorized dealer will, at our option, repair or replace any part found to be defective in material or workmanship, without charge for parts or labor, to the original residential purchaser for a period of time of one year. However, charges for pickup, delivery, and service calls are not covered by this warranty. The engine is warranted separately by the engine manufacturer.

What Is Not Covered:

This warranty does not apply to parts that have been damaged by accident, alteration, misuse, abuse or improper lubrication. The following items are not covered after the first six months of home use: hoses, batteries, bushings, seals, filters, tires, wheels, paint, chains, appearance items, light bulbs, and similar items which are normally replaced through periodic maintenance.

Limited Commercial Use Warranty:

If used for commercial, institutional or rental purposes, the warranty on this product is limited in duration to 90 days from date of purchase. This warranty does not apply to parts that have been damaged by accident, alteration, misuse, abuse or improper lubrication. The engine for commercial use is warranted separately by the engine manufacturer.

Commercial Use Definition:

For the purpose of this warranty "consumer use" means personal residential household use by the original retail consumer. "Commercial use" means all other uses, including use for commercial, income producing or rental purposes. Once a unit has experienced "commercial" use it will be considered as a commercial unit for the purposes of this warranty.

How To Get Service:

To obtain service, contact our nearest dealer, or Timberwolf Mfg. Corp. at 118 Spruce Street, Rutland, VT 05701, or call us at 802-775-4227. For engines, contact us or our dealers, or consult your Yellow Pages for the name of the service dealer that is authorized by the manufacturer.

Disclaimer of Consequential Damages:

Timberwolf Mfg. Corp. shall not be liable under any circumstances for any incidental or consequential damages or expenses of any kind, including – but not limited to – the cost of equipment rental, loss of profits, or cost of hiring services to perform tasks normally performed by the equipment.

Limitation of Implied Warranties:

Any implied warranties, including without limitation any implied warranty of merchantability or fitness for a particular purpose, shall be limited in duration to a period of one year (90 days if product is purchased for commercial or other non-residential use) from the date of sale.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitation on how long an implied warranty lasts.

Your Rights Under State Law:

This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

TIMBERWOLF MANUFACTURING CORPORATION

Warranty Registration Form

Timberwolf Manufacturing Corporation requires this warranty registration form to be filled out and returned within 30 days after the machine's purchase. The record of your purchase helps us to efficiently process any warranty claims that may arise.

Purchaser Name
(Individual or Company): _____

Address: _____

Purchased From
(Dealer): _____

Address: _____

Date of Purchase: _____

Model Number: _____

Serial Number: _____

Motor Serial Number: _____

Options: _____

Mail to TIMBERWOLF Manufacturing Corporation
118 Spruce Street
Rutland, Vermont 05701

OR

Fax to 802-773-1275

Detach and Fold this page, Tape Shut, Affix Stamp, and Mail To:

TIMBERWOLF Manufacturing Corporation
118 Spruce Street
Rutland, Vermont 05701