

TIMBER WOLF™

TIMBERWOLF™ MFG.
CORPORATION
WOOD PROCESSING EQUIPMENT

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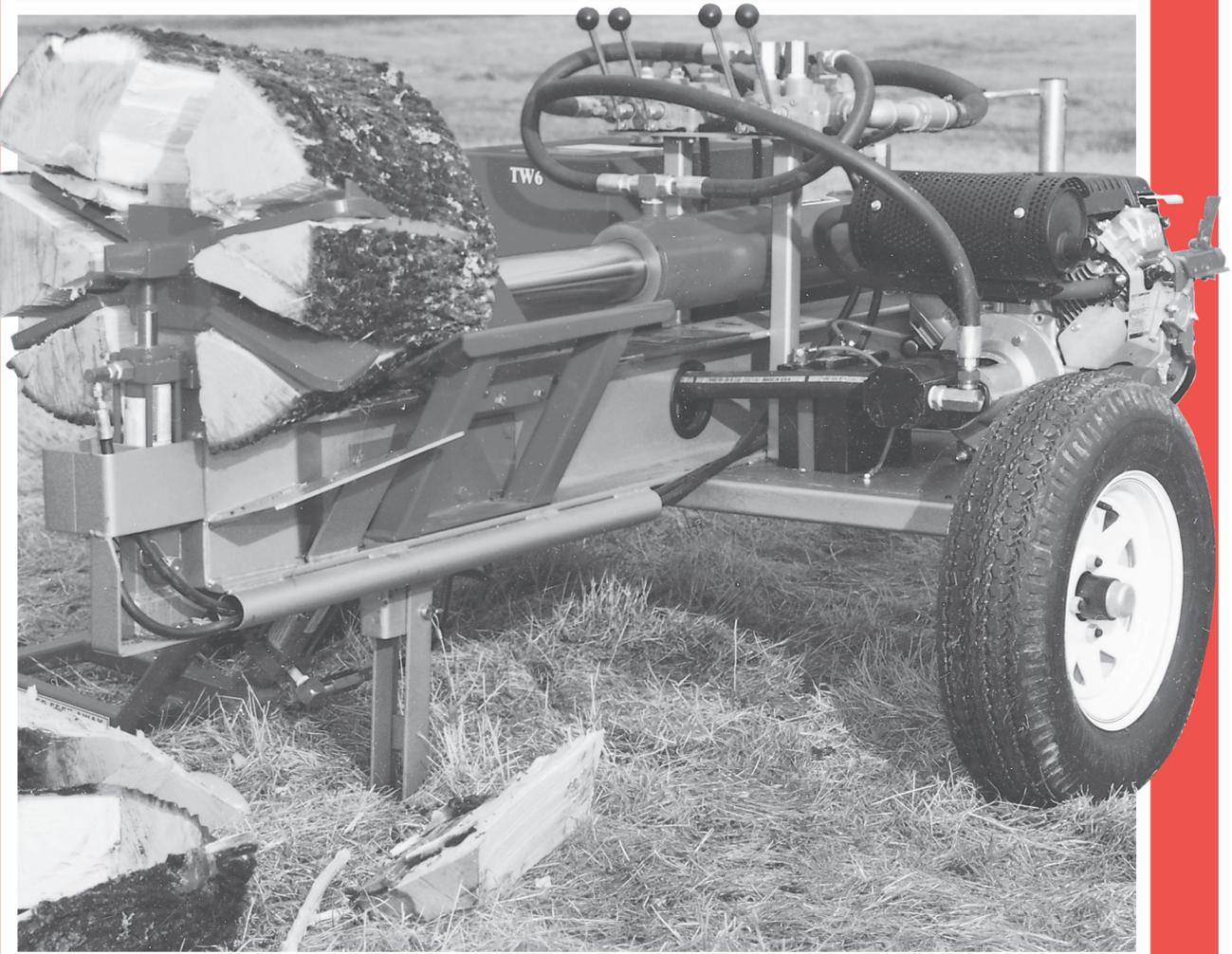
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WOOD PROCESSING EQUIPMENT



M A N U A L

Heavy Duty Log Splitters

❖ **TW-2 HD** ❖ **TW-5** ❖ **TW-5 FC** ❖ **TW-6**

TIMBERWOLF
Manufacturing Corporation

Log Splitter
Operation Manual

Model TW-2 HD

Model TW-5

Model TW-5 FC

Model TW-6

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

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TIMBERWOLF Manufacturing Corporation,
Rutland, VT 05701

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.

**WARNING**

YOU CAN DIE OR BE SERIOUSLY INJURED IF YOU DO NOT USE THIS LOG SPLITTER SAFELY.

Read, understand and follow all safety information and instructions in this manual before using the log splitter.

If you have any question about safety, assembly, use or maintenance of this device, call Timberwolf Manufacturing Corp. at

(800) 340-4386

Record your log splitter's identification here:

Model No. _____

Serial No. _____

Motor No. _____

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General Safety Instructions

TW-2HD, TW-5, TW-5FC, & TW-6

Log Splitters

**WARNING**

YOU CAN DIE OR BE SERIOUSLY INJURED IF YOU DO NOT USE THIS LOG SPLITTER SAFELY.

Read, understand and follow all safety information and instructions in this manual before using the log splitter.

**WARNING**

CARBON MONOXIDE GAS IN THE ENGINE EXHAUST CAN CAUSE DEATH OR BRAIN DAMAGE.

Always use the log splitter outdoors or in an open area with circulating fresh air.

Never use the log splitter indoors or in a confined space.

General

- **Always** do the following:
- Read this manual before you use the log splitter.
- Locate the log splitter **only** on firm level ground:
- Site must provide solid footing for operator (not slippery underfoot).
- Site must be free of tripping hazards (stumps, roots, stones, etc.).
- Wear:
- Goggles or face shield
- Hearing protection
- Snug-fitting work gloves
- Safety shoes.
- Keep away from the splitting area when the push block is moving. Stay in the Operator Zone (see page 5).

Log Handling


WARNING

You can lose fingers or arms or suffer other injuries in the log splitter's pinch and shear points.



Always grasp logs in the middle when putting them in the splitter. Never put anything into a log crack during splitting; it can close suddenly.

	<p>Never put anything between the log and the cradle.</p> <p>Never climb over or straddle the log splitter.</p>
Cautions	<ul style="list-style-type: none">• To prevent injury:• NEVER split anything other than wood logs.• DO NOT move or reposition the log splitter when the motor is running.• DO NOT alter or modify the log splitter in any way.• DO NOT operate the log splitter with another person.• Only one person must position the logs and operate the controls.• Keep all bystanders at least 15 feet away from the log splitter.• NEVER operate the log splitter if you are under the influence of drugs, alcohol or medication or when you are tired.• DO NOT allow an untrained person to operate the log splitter.• DO NOT allow anyone too immature to appreciate the danger to operate the log splitter.• DO NOT leave the machine unattended with the motor running.

Hydraulic Safety Instructions

 **WARNING**

You can die or be seriously injured if hydraulic fluid under pressure penetrates your skin. **Get medical help immediately if this occurs.**

Do not use your hand or any other body part to check for leaks; use a cardboard sheet or a piece of wood.

Do not open the hydraulic oil tank until tank is cool to the touch.

Always release system pressure before doing any service or maintenance. To release system pressure:

- (1) Shut off log splitter motor.
- (2) Move control valve handle(s) to forward limit position and hold for three seconds.
- (3) Move control valve handle(s) to back limit position and hold for three seconds.
- (4) Repeat sequence with control valve handle(s) four (4) times.

General

To prevent hydraulic system problems, you must:

- Always inspect all hoses before you start the motor.
- **Immediately replace any hose that is frayed, kinked or cracked.**
- **Depressurize system before replacing hoses or servicing the unit.**

•  **WARNING**

- You can die or be seriously injured if hydraulic fluid under pressure penetrates your skin. **Get medical help immediately if this occurs.**
- Unless you have been trained in servicing hydraulic systems, you must have a qualified person repair the system.
- Do not change pressure relief valve setting.
- Always use hoses, connectors, valves and fittings that have the same specifications as the original ones.

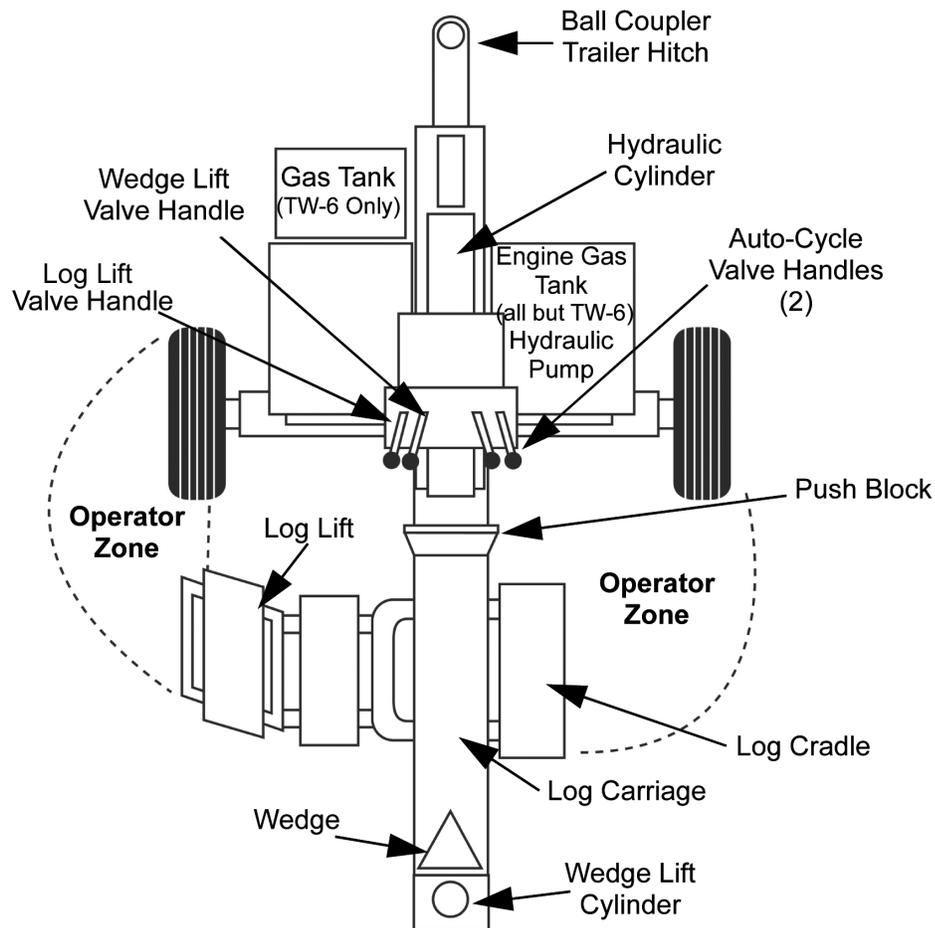
General Description and Features

TW-2HD, TW-5, TW-5FC, & TW-6

Log Splitters

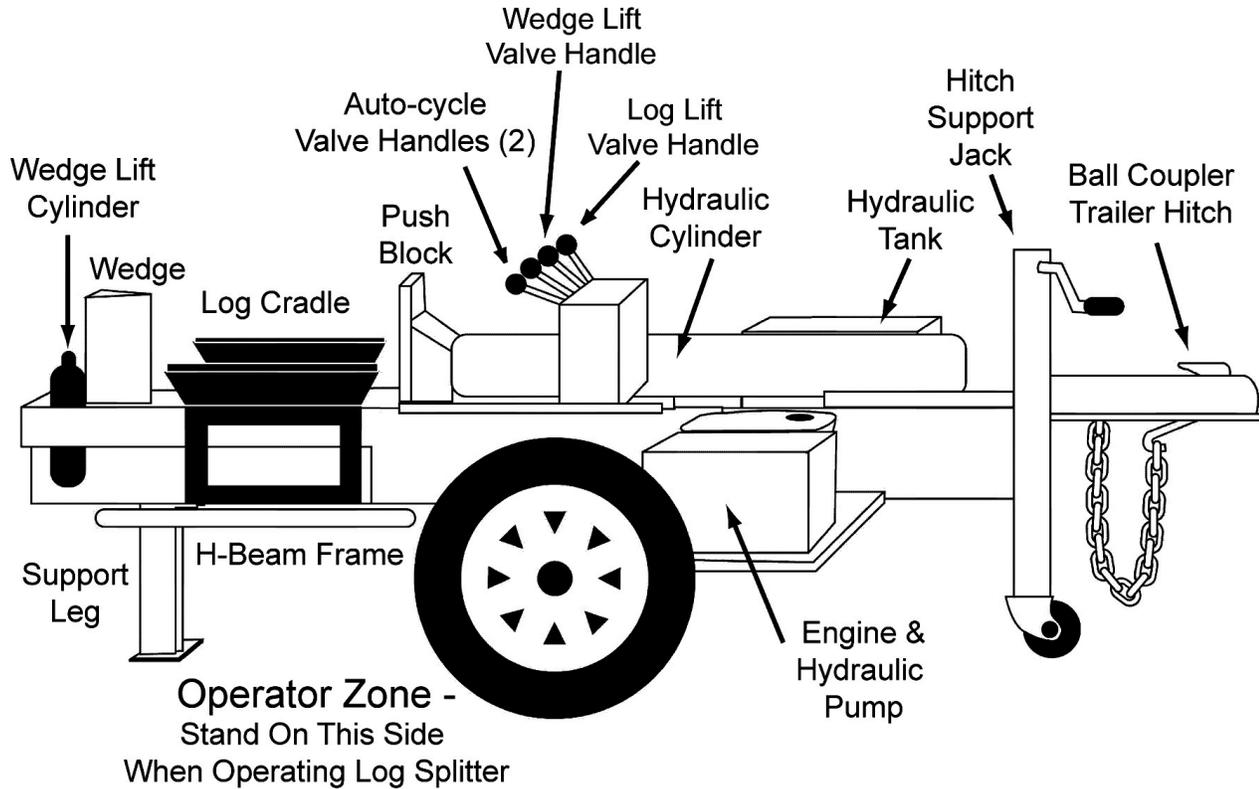
Component Names

The drawings on this page and the next identify log-splitter components by the names this manual uses for them.



⚠ CAUTION

Operator Zones identify areas to stand in while operating the log splitter and log lift. Do not reach across to the controls from anywhere else. Go around trailer hitch to move between Operator Zones



Two-stage Hydraulic Pump

Timberwolf log splitters feature a two-stage hydraulic pump:

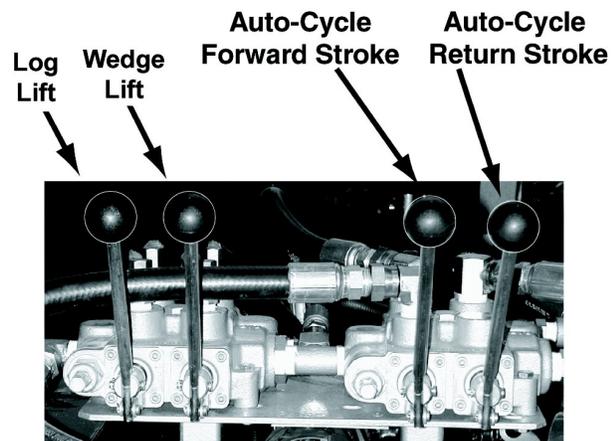
- Pump normally moves the push block at high speed with low force.
- Pump shifts automatically to low speed and high force when the push block encounters more resistance.
- Pump may shift two or three times while splitting some logs.

NOTE

If the two-stage hydraulic pump stays in one stage all the time, contact your local dealer or another authorized Timberwolf service facility.

Auto-Cycle Valve

- The auto-cycle hydraulic control valve enables the log splitter to automatically complete the forward and return strokes:
- Pull both auto-cycle valve handles toward you to start the splitting cycle.
- Keep holding both handles until the push block has the log pressed firmly against the wedge.
- Let go of the valve handles as the log begins to split.
- Forward stroke handle pops up when the push block is fully extended.



- Return stroke handle pops up when the push block finishes retracting.
- Auto-cycle valve is standard on the TW-5, TW-5 FC, and TW-6 log splitters.
- Optional on the TW-2 HD log splitter.

**Single Handle Valve
(TW-2 HD)**

The TW-2 HD log splitter's standard-equipment hydraulic control is a single handle valve.



1. To split log, pull the valve handle toward you and hold it until the log is split.
2. Push the valve handle back and release it for the return stroke.

Wedges

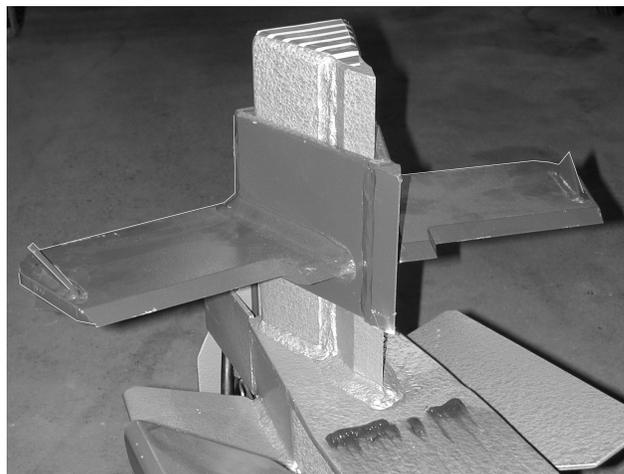
- All Timberwolf log splitters have a permanently installed, single-blade, fixed wedge.
- The fixed wedge splits logs into two pieces.
- There are also two slip-on wedges and a wedge lift feature available for greater versatility and control.

NOTE

Do not use a slip-on wedge for splitting logs that have more than one knot or that have twisted grain. Knotty or twisted logs increase stress on the slip-on wedge, and may displace or damage it.

**Four-way
Slip-on Wedge**

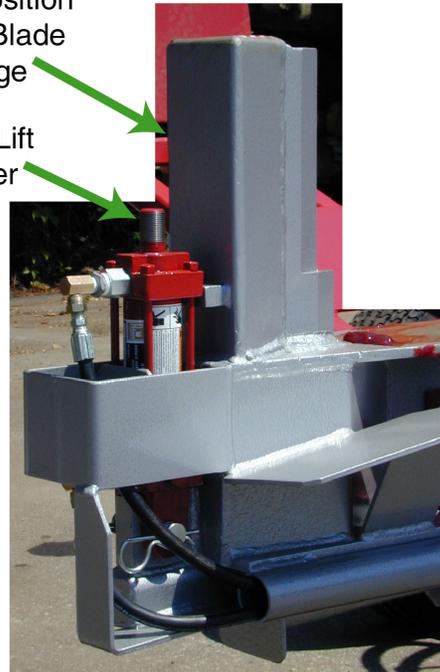
- Splits log into quarters on each cycle.



	<ul style="list-style-type: none"> • Can be used on logs up to 24 inches in diameter. • Vertical wedge/mounting sleeve slides over the log splitter’s permanently installed, single wedge. • Horizontal wedge height should be close to center of log. • Choose low or high horizontal wedge position by turning over the slip on wedge • Low or high position affects range of heights available with wedge lift. • Low or high position is the four-way wedge’s only adjustment on a TW-2HD log splitter without a wedge lift (see page 10). • Four-way wedge standard on TW-5, TW-5 FC, TW-6 log splitters. • Optional on TW-2 HD log splitter.
<p style="text-align: center;">Six-way Slip-on Wedge</p>	<ul style="list-style-type: none"> • Splits log into six pieces with one thrust of the ram. <div data-bbox="803 982 1372 1360" data-label="Image"> </div> <ul style="list-style-type: none"> • Handles logs up to 24 inches in diameter. • For use on log splitters with 5 inch or larger hydraulic cylinder. • Optional on TW-5, TW-6 log splitters. • Not available on TW-2 HD, TW-5 FC log splitters.
<p style="text-align: center;">Hydraulic Wedge Lift</p>	<ul style="list-style-type: none"> • Moves slip-on wedge up and down.

Fixed Position
Single-Blade
Wedge

Wedge Lift
Cylinder



- 4 inches of vertical travel to adjust wedge height close to center of log.
- One-lever hydraulic control.
- Standard on TW-5, TW-5 FC, TW-6 log splitters.
- Optional on TW-2 HD log splitter.

Table Grate

- Tubular steel grate mounts behind wedge.



- Enables convenient repositioning for second pass on

	<p>large pieces.</p> <ul style="list-style-type: none"> • Provides no-stoop work surface for making retail-size bundles. • Chips and debris fall through, providing cleaner finished product. • Optional.
<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 up to 500-pound log from ground and tips onto beam. <div data-bbox="766 982 1409 1465" data-label="Image"> </div> <p>Extra-wide models (36" and 48") available for TW-5.</p> <div data-bbox="727 1598 1421 1776" data-label="Text" style="border: 1px solid black; padding: 10px;"> <p style="text-align: center;">⚠ WARNING</p> <p>Serious injuries can occur. Never let anyone ride on the log lift.</p> </div>

Specifications				
Models:	TW-2 HD	TW-5	TW-5 FC	TW-6
Weight –	875 lb.	950 lb.	950lb.	1475 lb.
Splitting Force –	20 tons	25 tons	20 tons	28 tons
Horse Power –	9	11	11	18
Hydraulic Pump –	16 gpm	22 gpm	22 gpm	22 gpm
Hydraulic Tank –	15 gallons	15 gallons	15 gallons	20 gallons
Max. Log Length –	26 inches	26 in. – Std. 36 in. – Extnd 48 in. – Extnd	26 inches	26 inches
Cylinder Size –	24 x 4 x 2 in.	24 x 5 x 2 in.	24 x 4 x 2 in.	24 x 5 x 3.5 in.
Cycle Time –	9 seconds	10 seconds*	6 seconds	8 seconds
Frame –	6.5 in. x 8 in. H-beam	6.5 in. x 8 in. H-beam	6.5 in. x 8 in. H-beam	6.5 in. x 8 in. H-beam
Hitch –	2 in. ball coupler			
* Longer cycle times for TW-5 36" and TW-5 48"				

Features				
Models:	TW-2 HD	TW-5	TW-5 FC	TW-6
Auto Cycle Valve –	Optional	Standard	Standard	Standard
4-way Wedge –	Optional	Standard	Standard	Standard.
6-way Wedge –	N/A	Optional	N/A	Optional
Wedge Lift –	Optional	Standard	Standard	Standard
Log Lift –	Optional	Optional	Optional	Optional
Table Grate –	Optional	Optional	Optional	Optional
Log Cradles –	Standard	Standard	Standard	Standard
Fenders –	Optional	Optional	Optional	Optional

OPERATING INSTRUCTIONS

Locating the Log Splitter



WARNING

Carbon Monoxide gas in the engine exhaust can cause death or brain damage.

Always use the log splitter outdoors or in an open area with circulating fresh air.

Never use the log splitter indoors or in a confined area.

- Place the log splitter on level ground in a well-lit area.
- The area around the log splitter must not be slippery or have tripping hazards (stumps, roots, etc.).
- Keep people and animals away from the log splitter.
- Uncouple the log splitter from the tow vehicle:
- Use the hitch support jack to lift the log splitter's ball coupler hitch off the tow vehicle's tow ball.

To Raise



- Separate the tow vehicle and the log splitter to leave a gap between the tow ball and the hitch.

Supporting the Log Splitter

1. Lower the support leg at the wedge end
2. Remove the cotter pin.
3. Swing leg down into vertical position.
4. Reinsert the cotter pin.
5. Raise or lower the hitch support jack so that the jack wheel and the swing-down leg both contact the ground firmly.



NOTE

If the support leg needs more clearance to swing into position, raise the wedge end of the log splitter by lowering the hitch support jack.

Check Splitter for Damage

- Towing the log splitter can cause fasteners to loosen, components to wear or be damaged, and welds to fracture.
- Tighten all loose fasteners and replace or repair any damaged, worn or cracked components before using the log splitter.

Attach Table Grate

NOTE

Never transport the log splitter, either by towing or trailering, with a Table Grate installed.

Attaching or removing the Table Grate is a two-person job.

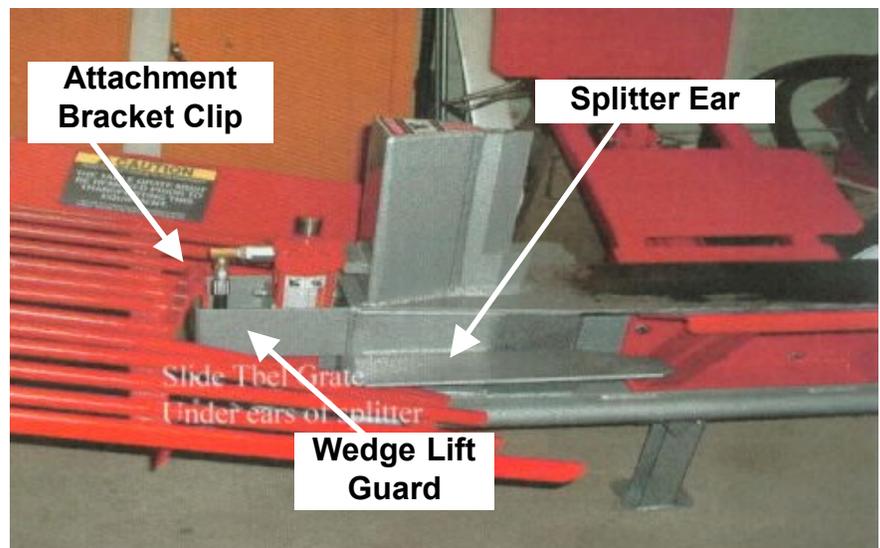
To attach the grate:

1. Pick up the Table Grate, holding it by the sides.

NOTE

The bars of the Table Grate have to slide under the splitter ears located below the wedge. If heavy use has bent the ears out of their original form, use a rubber mallet to bend them back into shape before installing the table grate.

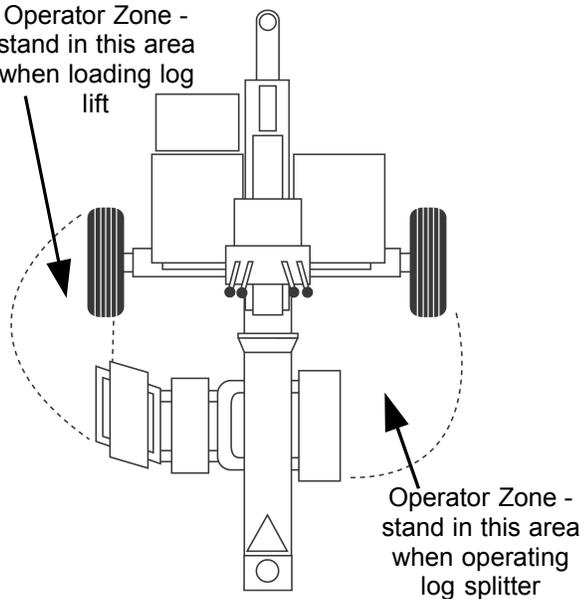
2. Align the Table Grate so the two wide-spaced bars fit onto the end of the log splitter's frame rail. The bars of the grate must pass under the splitter ears.
3. Slide the Table Grate into place until the attachment bracket contacts the Wedge Lift Guard.
4. Lift up on the Table Grate to hook the attachment bracket clip onto the Wedge Lift Guard.



5. Use a 5/16" nut and bolt, with lock washer, to secure the table grate to the wedge lift guard.
6. To remove the Table Grate, reverse the procedure in steps 3 – 5.

Check All Fluids

- Gasoline tank should be full.
- Engine oil must be up to fill pipe level.
- Hydraulic oil must be two (2) inches below the top of the tank.

	<ul style="list-style-type: none"> • Timberwolf recommends use of Rando 46 (Texaco).
<p>Start Engine</p>	<ul style="list-style-type: none"> • Read engine manual for starting (and maintenance) instructions. • Let engine run for at least ten (10) minutes to allow the hydraulic oil to warm up. <p style="text-align: center;">Note</p> <p>Always run the engine between $\frac{3}{4}$ throttle and full throttle. Operating at lower speeds can force gasoline into the engine crankcase, which will foul the spark plug and contaminate the engine oil.</p>
<p>Using the Log Splitter</p>	<ul style="list-style-type: none"> • Operate the controls only while standing in the OPERATOR ZONES shown in the sketch below. Never operate the log splitter from any other location. <div style="text-align: center;">  </div> <ul style="list-style-type: none"> • Handle logs only from the sides, never from the ends. • Place log with butt (wider) end toward the push block. • Position log on the cradle's centerline. • Steady log by placing your left hand on top of it, midway between its two ends. • Steady log only until it is firmly held between the push block and the wedge.

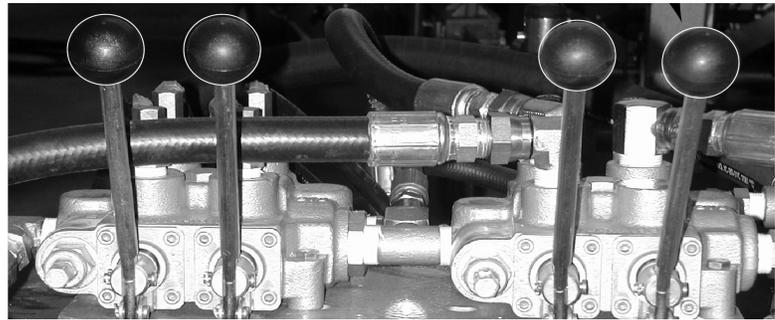
• Then move your hand away and keep your hands, arms and body away from the wedge, log and push block until the push block is completely retracted.

Use a stick to remove debris from the splitting area. Never use your hands or feet.

Controls

Log splitters that are equipped with auto-cycle valve, wedge lift and log lift have the four controls shown here.

⚠ WARNING		⚠ ADVERTENCIA	
<p>YOU CAN DIE OR BE SERIOUSLY INJURED. Before using the splitter, Read the Manual for Safety Information and Operating Instructions.</p>		<p>USTED PUEDE MORIR O RESULTAR GRAVEMENTE HERIDO. Antes de usar la cortadora de leña, lea el manual para información de seguridad e instrucciones de funcionamiento.</p>	
<p>LOG LIFT UP ↑ DOWN ↓</p>	<p>WEDGE LIFT ↑ UP ↓ DOWN</p>	<p>AUTO CYCLE-MOVE BOTH LEVERS</p> <p>MANUAL CYCLE 1 SPLIT 2 RETURN</p>	



NOTE

Auto-cycle valve and wedge lift are standard equipment on models TW-5, TW-5FC, and TW-6. These features and their controls are optional equipment on the TW-2HD.

Log lift is optional on all models.

The operation of all these controls is discussed below.

Auto-Cycle Controls

Auto-Cycle Operation

For automatic operation of the complete splitting cycle:

- 1 . Steady log by placing your left hand on top of it, midway between its two ends.
- 2 . With your right hand, pull both handles forward

(toward you) at the same time to their stop position (detent).

3. Hold handles at the stop position and continue to steady the log until it is firmly gripped between the push block and the wedge.

NOTE

Handles click into the stop position (detente) at their travel limit, but may kick out when the push block first hits resistance.

4. When log is firmly gripped between push block and wedge, immediately remove your hand from the log and release the handles.

5. Keep hands, arms and body away from the wedge, log and push block until the push block is fully retracted.

- Auto-cycle operating sequence:
- Both handles remain locked in position while push block moves forward.
- **FORWARD** control valve handle snaps back to neutral position when push block reaches full extension and starts to retract.
- **RETURN** control valve handle snaps back to neutral position when push block is fully retracted and cycle is complete.

NOTES

1. Make certain nothing gets behind push block to interfere with it when it retracts.
2. To stop the automatic cycle at any time, push both handles back (away from you).
3. To retract the push block without completing the forward stroke, pull only the return control valve handle into the locked position. It will snap back to neutral position when push block is fully retracted.
4. To resume the splitting cycle after a stop, pull both handles back into their locked positions.

Manual Operation

To use the auto-cycle controls for manual operation:

1. Pull the **FORWARD** stroke handle forward (toward you) to its stop position (detent) to start the splitting cycle.

	<ol style="list-style-type: none"> 2. Push back on the FORWARD stroke handle after the log is split so that it returns to the neutral position. 3. Pull the RETURN stroke handle forward (toward you) to its stop position (detent) to start retracting the push block.
	<p>RETURN stroke handle snaps back to neutral position when push block is all the way back.</p>
<p>Log Lift</p>	<ol style="list-style-type: none"> 1. Pull the log lift lever toward you to fully lower the lift platform. 2. Roll a log (less than 500 lbs) onto the lift platform, then return from the lift Operator Zone to the splitting Operator Zone. <div style="border: 1px solid black; padding: 10px; margin: 10px 0;"> <p style="text-align: center;"> WARNING</p> <p>Walk around the trailer hitch when moving between the two Operator Zones.</p> </div> <ol style="list-style-type: none"> 3. Push back and hold the log lift control valve handle to raise the lift platform until the log rolls onto the cradle. 4. Keep lift raised while starting the splitting cycle. 5. When log is firmly gripped between push block and wedge, pull the log lift handle to lower the platform. 6. Complete the splitting cycle.
<p>Wedge Lift</p>	<p>The wedge lift provides up to four inches of vertical adjustment of the slip-on wedges.</p> <ol style="list-style-type: none"> 1. Adjust slip-on wedge height while log is on the cradle and before splitting: 2. Push handle away from you to raise wedge. 3. Pull handle toward you to lower wedge. 4. Complete the splitting cycle. <p style="text-align: center;">NOTE</p> <p>The wedge lift moves only while handle is held in the desired position.</p>

Single Handle Control (TW-2 HD Only)

The basic TW-2 HD log splitter is equipped with the single handle control shown below.



Single Handle Control
Push away from you & release for auto retract
Pull toward you & hold to split

1. Steady log by placing your left hand on top of it, midway between its two ends.
2. With your right hand, pull the handle forward (toward you) to its stop position.
3. Hold handle at the stop position and continue to steady the log until it is firmly gripped between the push block and the wedge.
4. When log is firmly gripped between push block and wedge, immediately remove your left hand from the log.

NOTE

To stop push block while it is extending, release

	control valve handle.
	<p>5. Continue to pull handle toward you until the log is split.</p> <p>6. Release handle and let it return to the neutral position.</p> <p style="text-align: center;"><u>NOTE</u></p> <p>Always pause the control valve handle in neutral position before you reverse push block direction. Hydraulic system recovers during the pause. Failure to do this causes increased wear on the hydraulic system.</p> <p>7. Push handle away from you into locked position. Push block starts automatic retract.</p> <p style="text-align: center;"><u>NOTE</u></p> <p>To stop push block while it is retracting, pull control valve handle back to neutral position.</p> <p>8. Handle returns to neutral position automatically when push block is fully retracted.</p>

Transporting the Log Splitter

<p>Preparation</p>	<ul style="list-style-type: none"> • Never move the log splitter with the motor running. • Make sure fuel valve on log splitter motor is in the “OFF” position. <p style="text-align: center;"><u>NOTE</u></p> <ul style="list-style-type: none"> • If fuel valve isn't shut off, fuel will be forced into the cylinder and crankcase during travel. If that happens, the engine motor oil and spark plug have to be replaced. • Always release hydraulic system pressure before transporting the log splitter. See directions on page 4. • Remove optional four-way or six-way wedge and transport it in the tow vehicle. • Remove optional table grate (see directions on page 14) and transport it in the tow vehicle. • Make sure there are no loose parts or debris on the
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log splitter to fall off while it's being towed.

- Never tow the log splitter with a log on it.
- Make sure the front support leg is retracted and pinned up before transporting.



- Attach log splitter's ball coupler firmly to ball on tow vehicle hitch:
- Raise hitch latch to unlocked position.



- Place hitch onto ball of tow vehicle's trailer hitch.
- Lower hitch latch into locked position and secure with locking bolt.
- Cross the safety chains under the hitch and fasten them securely to the tow vehicle. Leave enough slack in the chains to permit turning.
- Use crank to raise leveling jack/wheel assembly as far as it will go.

Towing Safety

	<p>WARNING</p>
<p>Towing the log splitter can cause unstable driving</p>	

conditions and increase the risk of an accident:

- Do not exceed 30 mph while towing the log splitter.
- Log splitter will turn more sharply than the tow vehicle.

Do not back up with log splitter connected to the tow vehicle; splitter can jackknife..

- **Never allow anyone to ride on the log splitter.**
- **Never transport anything on the log splitter.**
- **Obey local, state, and federal regulations** when you tow the log splitter on public roads and highways.

NOTE

Some states may require the log splitter to be registered with the State Department of Motor Vehicles.

- **Fenders and light kits**, required in some states, are available from Timberwolf Manufacturing as optional equipment.
- **Do not exceed 30 MPH** while towing the log splitter.
- **Towing for more than fifty (50) miles is not recommended.** The log splitter does not have springs to absorb road shock. Extended towing can cause unnecessary wear.
- **Load the log splitter onto a truck or trailer if traveling more than fifty miles.**
- Use a truck or trailer if the log splitter must be moved frequently.

Maintenance



WARNING

Make sure motor 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.

Daily	General	<ul style="list-style-type: none"> • Check all fasteners; tighten any that are loose fasteners. Pay special attention to the fasteners holding the wear plates to the push block. • Check for cracked welds. If you find cracked welds, they must be repaired by a certified welder. • Check for and replace worn or damaged components.
	Push Block	<ul style="list-style-type: none"> • Grease push block and top of beam. • Fill grease fittings. • Check condition of the wear plates (“gibbs”). If you can raise the push block more than ¼” off the beam, wear plates must be replaced.
	Hydraulic Hoses	<ul style="list-style-type: none"> • Inspect hoses for frayed, worn, kinked or abraded areas. • Replace any damaged hose before using the log splitter. • Check for leaks after the engine has run for ten (10) minutes.
		<u>NOTE</u>
		<ol style="list-style-type: none"> 1. See Hydraulic Safety Instructions in this manual. 2. Unless you have been trained in servicing hydraulic systems, you must have a qualified person repair the system. 3. Do not change pressure relief setting. 4. Always use hoses, connectors, valves and

	<p>fittings that have the same specifications as the originals being replaced.</p>
<p>Motor</p>	<p>See motor instructions manual for daily and regular maintenance requirements.</p>
<p>Frequent</p> <p>Engine Oil</p> <p>Hydraulic Oil</p> <p>Hydraulic Oil Filter</p>	<ul style="list-style-type: none"> • Change engine oil after the first five (5) hours of operation. • Change engine oil regularly after every twenty (20) hours of operation. <p>Change the hydraulic oil after every two hundred (200) hours of operation.</p> <p style="text-align: center;"><u>NOTE</u></p> <ol style="list-style-type: none"> 1. If hydraulic oil becomes contaminated, change it immediately to prevent damage to the system. 2. See the Hydraulic Safety Instructions in this manual. 3. Unless you have been trained in servicing hydraulic systems, you must have a qualified person repair the system. <ul style="list-style-type: none"> • The log splitter is equipped with an in-tank, ultra-fine steel mesh hydraulic oil filter. • The green/yellow/red gauge mounted on the hydraulic oil tank filler cap indicates hydraulic filter condition. <div data-bbox="824 1360 1409 1801" data-label="Image"> </div> <ul style="list-style-type: none"> • Replace the filter when filter condition gauge

	needle first enters the red zone.
Wedge	<ul style="list-style-type: none"> • Inspect wedges regularly. • Sharpen dull wedges with file or grinder.
Wheel Bearings	<ul style="list-style-type: none"> • Grease wheel bearings annually. • Grease wheel bearings any time splitter is towed fifty (50) miles or more.

Hydraulic Control Valves Repair and Maintenance

 **WARNING**

You can die or be seriously injured if hydraulic fluid under pressure penetrates your skin. **Get medical help immediately if this occurs.**

Do not use your hand or any other body part to check for leaks; use a cardboard sheet or a piece of wood.

Do not open the hydraulic oil tank until tank is cool to the touch.

Always release system pressure before doing any service or maintenance. To release system pressure:

1. Shut off log splitter motor.
2. Move control valve handle(s) to forward limit position and hold for three seconds.
3. Move control valve handle(s) to back limit position and hold for three seconds.
4. Repeat sequence with control valve handle(s) four (4) times.

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	<ol style="list-style-type: none"> 1. Remove cotter pin from the handle where it connects to valve spool. 2. Remove 4 screws from rear of détente block and slide

	<p>entire spool with détente block still attached out the back of the valve.</p> <ol style="list-style-type: none"> 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.
<p style="text-align: center;">Front O-ring Replacement</p> <p style="text-align: center;">Detent Plunger O-ring Replacement</p>	<ol style="list-style-type: none"> 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. <p>If auto cycle valve leaks from the top of the détentes, the O-rings on the détente plunger must be replaced.</p> <p>To replace détente plunger O-rings:</p> <ol style="list-style-type: none"> 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.

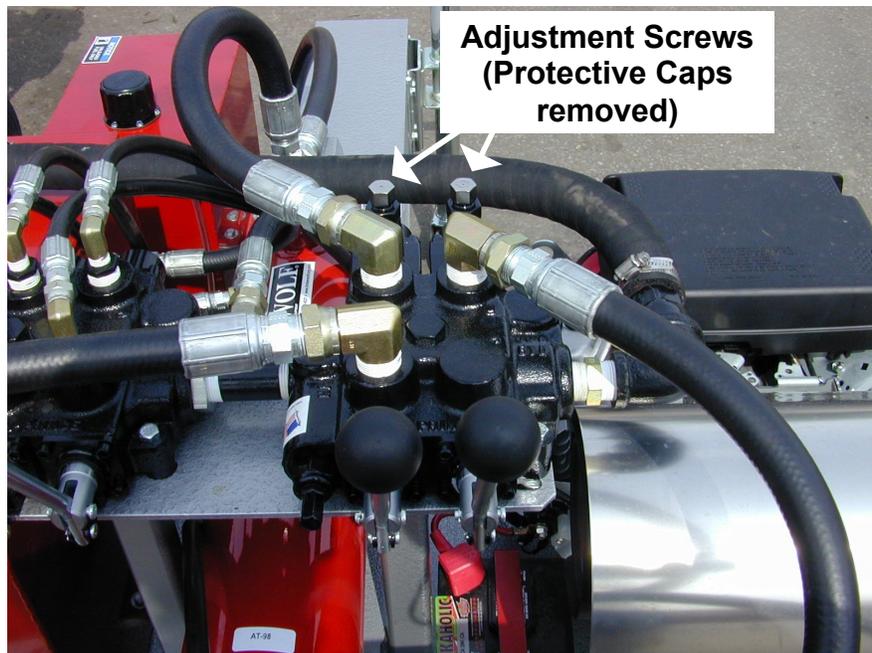
NOTE

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

There are several things you need to know before you adjust the auto-cycle valve:

- Make adjustments by turning the screw located on top of each valve (normally covered by black plastic protective cap).



- Correct adjustment requires you to hold both handles in their forward stop position (détente) until the log begins to split.
- You should then be able to release the handles while the push block automatically finishes advancing and retracts, completing the cycle.

NOTE

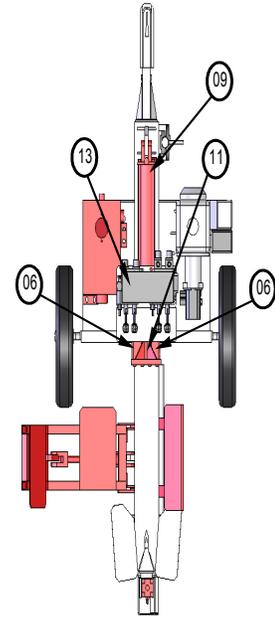
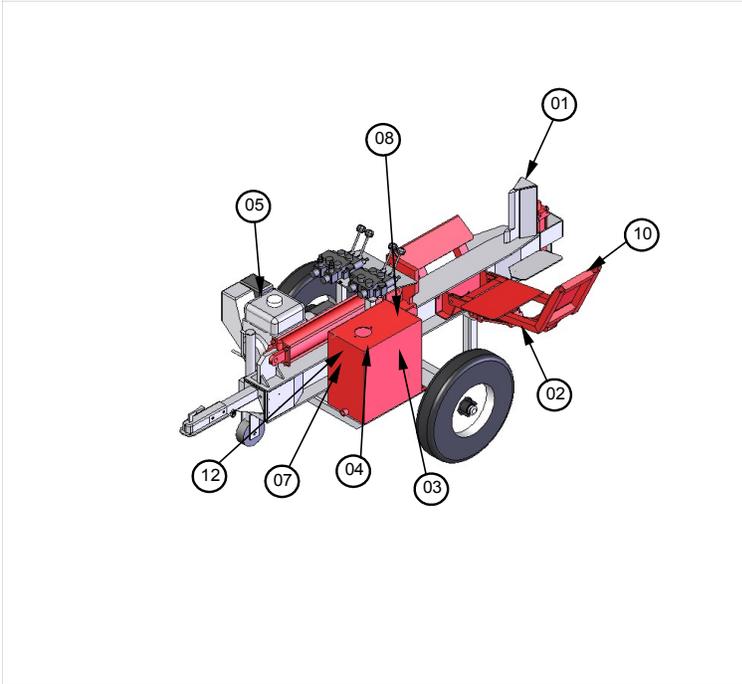
Auto-cycle valve will not function properly if the FORWARD stop position (détente) is adjusted so the handles can be released before the log starts to split.

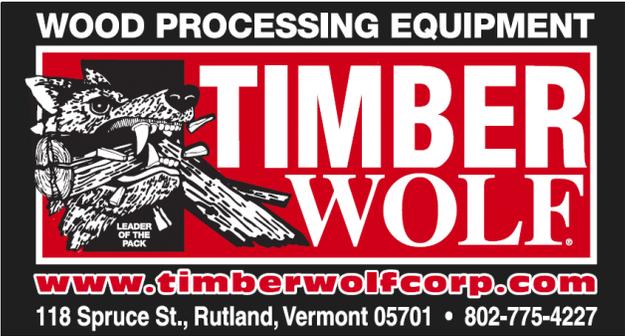
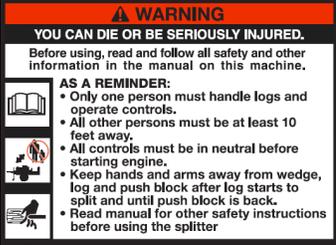
Normally both stop position screws (détentes)

	<p>have to be adjusted to make the auto cycle work properly.</p> <p>Make all adjustments with the log splitter at normal operating temperature.</p> <p>The stop position (détente) for each spool on the auto cycle valve must be adjusted periodically, depending upon use. A trouble-shooting chart appears below.</p>
<p>Problems/Solutions</p>	<p style="text-align: center;"><u>NOTE</u></p> <p>“Left” and “right” in the following instructions are the directions when looking at the valve from the operating handle (wedge) end.</p> <p>Push block will not extend completely:</p> <p>Adjust FORWARD (left) valve</p> <ol style="list-style-type: none"> 1. Turn adjusting screw clockwise one-quarter turn. 2. Split log to see if handle stays forward until the push block extends completely. 3. Repeat adjusting and splitting until handle stays forward through the entire stroke. <p style="text-align: center;"><u>NOTE</u></p> <p>If the engine slows way down before it can kick the FORWARD lever into the neutral position, the adjusting screw is turned too far in.</p> <p>Make small adjustments until engine speed remains fairly stable while the FORWARD lever returns to neutral position.</p> <p>Push block will not return all the way.</p> <p>Adjust RETURN (right) valve</p> <ol style="list-style-type: none"> 1. Turn adjusting screw clockwise one-quarter turn. 2. Split log to see if push block will return on its own. 3. Repeat adjusting and splitting until push block does return on its own. <p>Both handles kick to neutral when push block is all the way forward.</p> <ul style="list-style-type: none"> • Either turn the left adjusting screw counter-

	<p>clockwise to reduce pressure on forward détente.</p> <ul style="list-style-type: none"> • Or turn the right adjusting screw clockwise to increase spring pressure. <p>Right or left valve handle will not kick back to neutral position.</p> <ul style="list-style-type: none"> • Turn adjusting screw counter-clockwise a quarter turn at a time.
	<ul style="list-style-type: none"> • If that doesn't work, shut down the log splitter, release system pressure, remove entire valve assembly, and check for dirt or broken parts.

Decal Locations



1. 
2. 
3. 
4. 
5. 
6. 
7. 
8. 
9. 
10. 
11. 
12. **TW-2HD**
TW-5
TW-6
13.

⚠ WARNING		⚠ ADVERTENCIA
YOU CAN DIE OR BE SERIOUSLY INJURED. Before using the splitter, Read the Manual for Safety Information and Operating Instructions.		USTED PUEDE MORIR O RESULTAR GRAVEMENTE HERIDO. Antes de usar la cortadora de leña, lea el manual para información de seguridad e instrucciones de funcionamiento..
LOG LIFT UP ↑ DOWN ↓	WEDGE LIFT ↑ UP ↓ DOWN	AUTO CYCLE-MOVE BOTH LEVERS ↓ MANUAL CYCLE 1 SPLIT ↓ 2 RETURN ↓

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 (Timberwolf) or our authorized dealer will, at our option, repair or replace, without charge for parts or labor, any part, except the engine, found not to have met our specifications in material and workmanship for a period of:

- One (1) year for consumer use equipment, or
- Ninety (90) days for commercial use equipment. (See definitions below.)

This warranty does not cover any costs incurred for pickup, delivery or shipping to Timberwolf or service calls.

The decision as to whether a part falls within this warranty is Timberwolf's alone.

The engine warranty is contained in the engine manual and is not covered by Timberwolf or its authorized dealers.

What Is Not Covered:

This warranty does not apply to parts that, in Timberwolf's opinion, have been damaged by accident, alteration, misuse, abuse or improper lubrication.

The following items are not covered after the first six (6) months of consumer use:

Hoses, batteries, bushings, seals, filters, tires, wheels, chains, paint, appearance items, light bulbs and all other items considered, in Timberwolf's opinion, to be normal maintenance components.

Consumer and Commercial Use Definitions

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.

Exclusion of Implied Warranties:

There are no other warranties, either express or implied, accompanying these products, including but not limited to, the IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR USE.

Your rights may vary under state law. For example, some states do not allow the exclusion of incidental or consequential damages, or the exclusion of implied warranties.

THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS, WHICH VARY FROM STATE TO STATE.

TIMBERWOLF MANUFACTURING CORPORATION**Warranty Registration**

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.

The fastest and easiest way to send in your warranty is to do it online:

<http://www.timberwolfcorp.com/warranty>

If you wish to send in your warranty through the mail, you will find a separate warranty card included in this manual. Please fill it out and send it back to us as soon as possible.