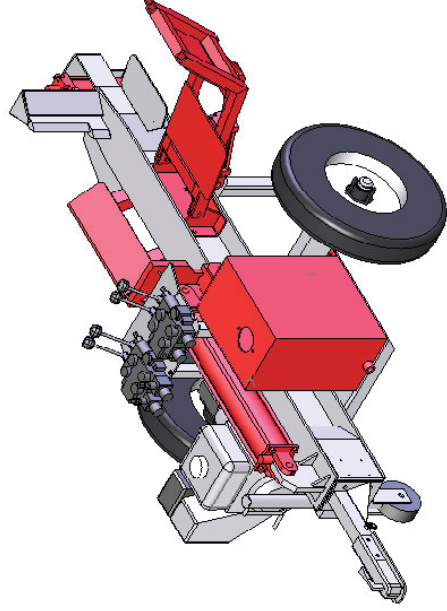


OPERATOR'S MANUAL

**TW-2HD, TW-5,
TW-5FC, TW-6**
Log Splitters



www.timberwolfcorp.com



TW-2HD, TW-5, TW-5FC, TW6 Log Splitter Operation Manual

Fill out and submit registration form to ensure warranty coverage and receive product updates.
Register online at www.timberwolfcorp.com/warranty

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Timberwolf Manufacturing Corporation

Record your log splitter ID numbers here:

Model # _____

Serial # _____

Engine # _____

VIN # _____

Timberwolf Manufacturing Corporation

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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.

Revised August, 2010

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

About This Manual

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

Please study this manual before operating the unit as it contains important information relating to safety, operation and maintenance. Timberwolf Manufacturing Corporation strongly suggests you keep it safely stored.

If you have questions regarding anything outlined in this manual, please call Timberwolf at **1-802-775-4227**.

Read Entire Manual Before Operating the Log Splitter

Safety Note



Please take time to read this manual and learn how to operate and maintain the log splitter safely. If you have any questions regarding assembly, use, safety, or maintenance, please call Timberwolf at 1-802-775-4227. 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.**

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 engine
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

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Read this entire manual before starting or operating this log splitter! Failure to do so could result in serious injury or death!



Attention Rental Companies

It is extremely important that you familiarize operators with the following safety instructions and that you keep a manual with the machine at all times. Require all users to read the manual before operation and are aware of all warnings and hazards.



High Pressure Warning!

Escaping hydraulic fluid can penetrate skin and cause serious injury!

Caution! Residual High Pressure Hydraulic Energy

Your log splitter has been tested at the factory and is delivered to you ready to run. That means that there may be residual pressure in the hydraulic system. If for some reason you need to perform any maintenance or repair to the machine, you ***must*** release that pressure before any work can begin. Please refer to page 30 for instructions.

General Use:

This machine was designed to split logs into firewood only. Timberwolf strongly recommends that this machine not be modified and/or used for any application other than that for which it was designed. If you have any questions relative to a particular application, do not use the machine until you have first contacted Timberwolf or an authorized Timberwolf dealer to determine if modifications can or should be performed on the product.



- Only qualified personnel, 18 years and older, may operate the log splitter and **ONLY** after reading this manual. Operators who are improperly trained or unfamiliar with this log splitter risk serious injury to themselves and the equipment
- Before operating this log splitter, the user must become familiar with proper emergency shut down procedures
- Do not stand on any part of the machine while it is running, for any reason; pinching or crushing injury is possible
- Never operate the log splitter while under the influence of alcohol or drugs
- Never touch parts of the engine as burns can result
- Never operate the machine indoors or without adequate ventilation. Ensure that plenty of fresh air is available. Failure to do so could result in carbon monoxide poisoning
- You should always wear eye protection, hearing protection, snug fitting work gloves (loose gloves and clothing increase risk of snagging) and steel toed boots when you operate or work near this machine



Drawing In/Trapping Hazard

Drawing in/trapping points exist where objects are pulled into equipment, e.g., when a log drops onto the log cradle from the log lift. Machines are stronger and faster than people; always stop the equipment before attempting to remove an item that is stuck. Remember, guards cannot be provided for all situations and equipment must be able to function in the capacity for which it was designed.



Impact Hazard

Impact hazards can be broken down into two categories: forceful collision and contact. The first type of impact hazard, forceful collision, is the result of machinery or processes where any movement of tools, machine elements or particles could impact an operator. The second type of impact hazard, contact, refers to the movement of personnel that could result in collision with stationary or moving objects. For example, an operator could collide with a part of the log splitter while handling wood in preparation to splitting. Guarding may not be feasible for these types of hazards. **Be aware of your surroundings, never place yourself in a situation where you are in the path of a moving piece of equipment.**



Burn Hazard

The potential for burns exist in and around the engine. Be careful not to touch any of these surfaces, which are covered in the manufacturer's safety warnings. Read the engine manufacturer's warnings and follow their instructions carefully.



Fire Hazard - Flammable

- Since this machine uses a gasoline powered engine, there is a risk of fire. Read and follow all safety precautions outlined by the engine manufacturer or fire and serious injury may result
- Store fuel and oils in an approved flammable liquid storage container
- Dispose of waste liquids, spill-cleaning material and oil-soaked rags in an appropriate covered fireproof container(s) located at least 25 feet from the log splitter
- Only use dry powder, foam, or CO2 type fire extinguishers on or near the log splitter
- Never use water to extinguish any gasoline or oil fire



Moving the Log Splitter

- Only use suitable rated transport devices to move your log splitter
- The log splitter is heavy and requires the proper equipment to lift or move. Observe proper procedures for lifting and/or moving the log splitter
- Wear steel-toed boots when moving or operating the log splitter



Residual Risk

Residual Risk is defined as the portion of risk that remains after all safety measures have been taken. Although we have taken extensive measures to protect the operator and/or maintenance personnel from injury, all hazards cannot be removed. This manual provides graphical illustrations to aid in identifying potentially hazardous areas associated with your Timberwolf log splitter.



Crushing Hazard

Crush points are created when two moving objects move towards each other or when one object moves towards a stationary object. For example, the push block moving towards the splitting wedge.

To prevent being crushed or pinned, learn to recognize and avoid potentially dangerous situations.



Shear Hazard

Shear points are hazardous because of their cutting force and they often move so rapidly that they may not be visible, so it is easy to forget they are there. For example, shear points are created when the edges of two moving objects move close or across one another with enough speed or force to cut a soft material. Because some shear points cannot be guarded, it is important to be aware of their potential hazard and stay alert during operation.



Entanglement Hazard

Rotating shafts are the most common source of entanglement accidents, although any exposed machine part that rotates can be a potential entanglement hazard. A cuff, sleeve, pant leg, long hair, or just a thread can catch a rotating shaft and result in serious injury or death. Entanglement with a wrap point can pull you into the machine, or clothing may become so tightly wrapped that you are crushed or suffocated. In other cases, you could be thrown off balance and fall into other machine parts. Even a perfectly round shaft can be hazardous if there is enough pressure to hold clothing against the shaft. Hazards increase with shafts that are not round. Ends of the shafts that protrude beyond bearings are also dangerous. Check all equipment for potential entanglement points and be alert to their potential danger.

General Warnings for Safe Splitter Operation

Always do the following:

- Read this manual before using 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, debris, etc.)
- Wear goggles or face shield and always use appropriate hearing and foot protection
- Keep away from the splitting area and push block while operating
- Stand **ONLY** in the operator area when operating the splitter

Log Handling



- ALWAYS grasp logs in the middle and NOT by the ends
- NEVER put anything into a partially split log as it may close suddenly and eject or pinch the item
- NEVER put anything between the log and cradle
- NEVER climb over or straddle the splitter



General Cautions

- NEVER split anything other than wood logs
- DO NOT move or reposition the log splitter when the engine is running
- DO NOT alter or modify the log splitter in any way
- DO NOT operate the log splitter with another person - one person operation only
- Only one person must position the logs and operate the controls
- Keep all bystanders at least 10 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 under the age of 18 to operate the log splitter
- DO NOT leave the machine unattended with the engine running

What You SHOULD Do

- Inspect hydraulic hoses every day – check for worn, frayed, kinked, and cracked areas
- Replace any damaged or worn hoses
- Use sheet of cardboard or piece of wood to check for hydraulic leaks while system is running
- Depressurize system to release residual hydraulic energy before starting any repairs
 1. Shut off splitter engine
 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 or an authorized Timberwolf dealer to replace worn components

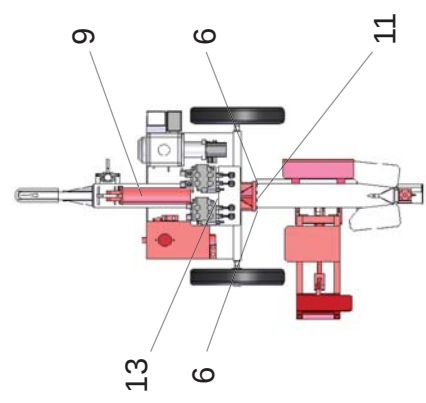
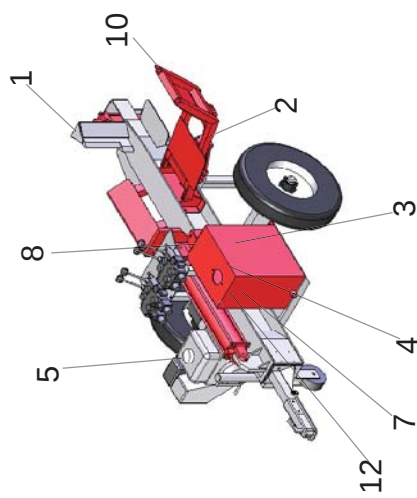
What You SHOULD NOT Do

- Never split anything other than logs
- Don't handle logs by their ends when you position them
- Never place your hands at pinch points where they can get caught between a log and the wedge, push block, or log cradle
- 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 engine running
- Do not modify or alter the machine in any way, at any time
- Never team up with another person to operate the log splitter – 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 its engine running
- Never remove cap from hydraulic tank while engine is running or while tank is still warm after engine is shut off. Hot pressurized oil can cause serious injury, so wait for hydraulic tank to cool, then release residual energy before removing cap (see page 30)
- Never use any connectors, valves, or fittings that are different from the ones originally installed on the log splitter



Decal Locations

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

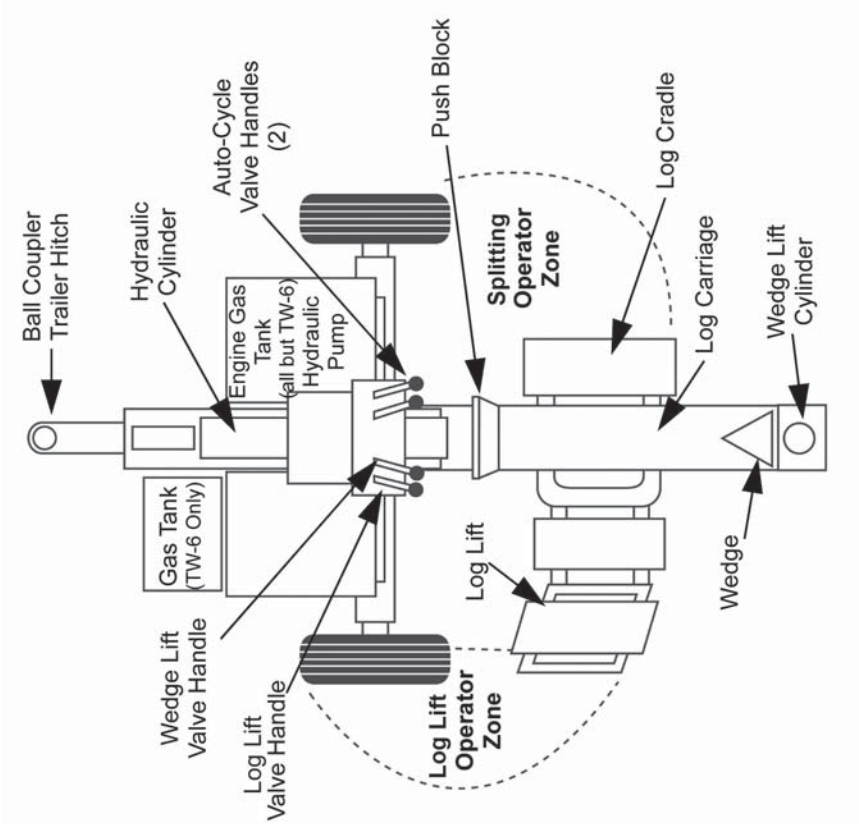


Features: TW-2HD, TW-5, TW-5FC, TW-6 Log Splitters

General Description and Features

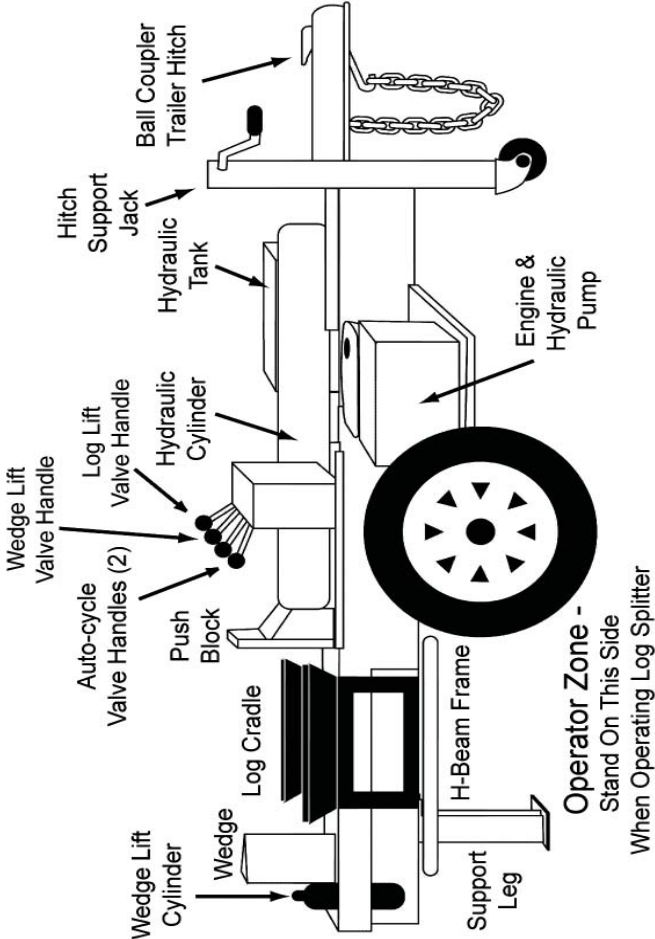
The drawings on this page and the next identify various log splitter components by the names used throughout this manual.

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 the trailer hitch to move between Operator Zones.



General Description and Features (Continued)

This is a typical side view of a Timberwolf log splitter.



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 other authorized Timberwolf service facility.

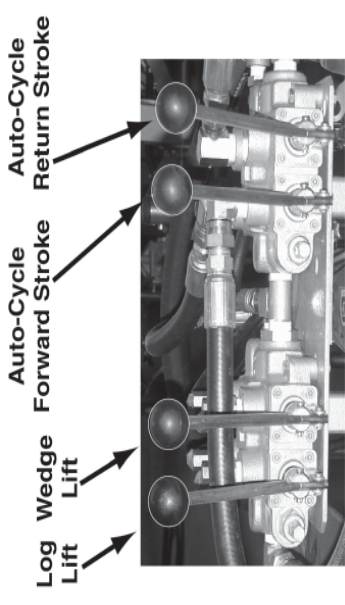
Auto Cycle Hydraulic Control Valve

The auto-cycle hydraulic control valve enables the log splitter to automatically complete the forward and return strokes:

- Push both auto-cycle valve handles toward the wedge to start the splitting cycle
- Keep holding both handles down 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.

It is 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, move the valve handle toward the wedge and hold it until the log is split
2. Move the valve handle away from the wedge into detent position 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.

4-Way Slip-on Wedge

- Splits log into quarters on each cycle
- 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 4-way wedge
- Low or high position affects range of heights available with wedge lift
- Low or high position is the 4-way wedge's only adjustment on a TW-2HD log splitter without a wedge lift (see illustration on next page)
- 4-way wedge is standard on TW-5, TW-5 FC, and TW-6 log splitters
- 4-way wedge is optional on the TW-2 HD log splitter

* See next page for 6-way wedge

6-Way Slip-on Wedge

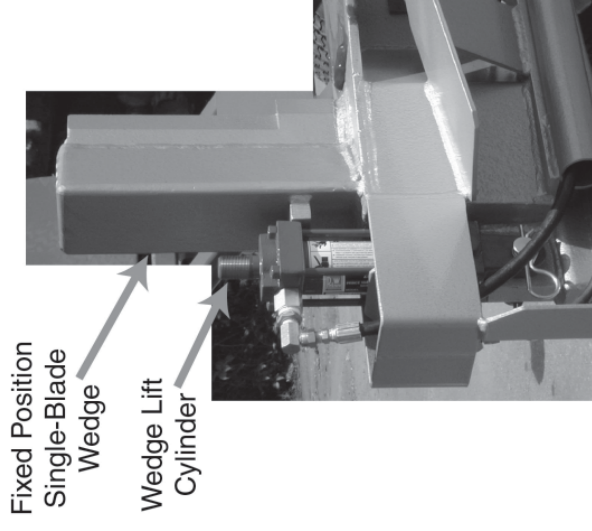
Splits log into six pieces with one thrust of the ram.

- For use on log splitters with a 5 inch or larger hydraulic cylinder
- Optional on TW-5 and TW-6 log splitters
- Not available on TW-2 HD and TW-5 FC log splitters

Hydraulic Wedge Lift

Moves slip-on wedge up and down.

- 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



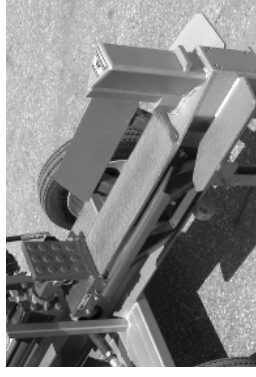
Optional Table Grate

- Tubular steel grate mounts behind wedge
- Enables convenient repositioning for second pass on large pieces
- Chips and debris fall through, providing cleaner finished product
- **DO NOT transport the splitter with the Table Grate installed**



Log Cradle

- Steadies log on beam
- Standard on all log splitters
- Heavy duty bolt-on cradle panels
- Two panels, one on each side of beam, when log lift not installed
- One panel opposite installed log lift



Optional Hydraulic Log Lift

- Lifts up to 500-pound log from ground and tips onto beam
- Extra-wide log lifts are available for the TW-5 36" and TW-5 48"



Warning!!! **Serious injuries can occur. Never let anyone ride on the log lift.**

Features				
Models	TW-2HD	TW-5	TW-5FC	TW-6
Auto Cycle Valve	Optional	Standard	Standard	Standard
4-way Wedge	Optional	Standard	Standard	Standard
6-way Wedge	Not Available	Optional	Not Available	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
Hitch	2" Ball Coupler	2" Ball Coupler	2" Ball Coupler	2" Ball Coupler
The TW-5 is also available in 36" and 48" lengths				

Before You Start

Operating Instructions



WARNING!

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

Always use the log splitter outdoors and in an open area with circulating fresh air. Never use the log splitter indoors or in a confined area.

Operational Placement of the Log Splitter

- 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, debris, etc.)
- Keep people and animals 10 feet away from the log splitter
- Separate the tow vehicle and the log splitter, leaving a gap between the tow ball and the hitch
- 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

To Raise



Attaching the Table Grate

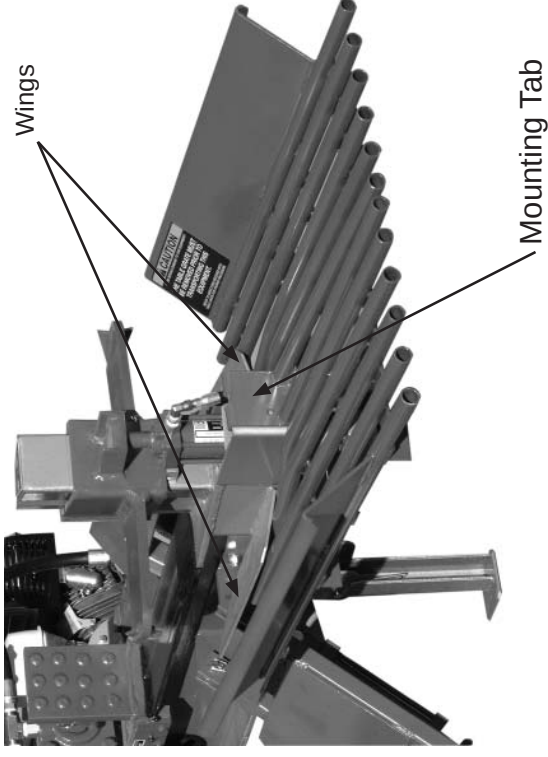
NOTE

Table grates are heavy. You will want to get someone to help you install it on the splitter.

1. Pick up the table grate, holding it by the sides
2. Slide the grate into place with the pipes slipping under the wings
3. Align the table grate so the mounting tabs slip into the mount

Check All Fluids

- Gasoline tank should be full
- Engine oil must be up to fill pipe level
- Hydraulic oil must be two (2) to four (4) inches below the top of the tank or in the middle of the sight level gauge.
- Timberwolf recommends use of ISO 46 for hydraulic oil



Operating Instructions

Starting and Using the Log Splitter

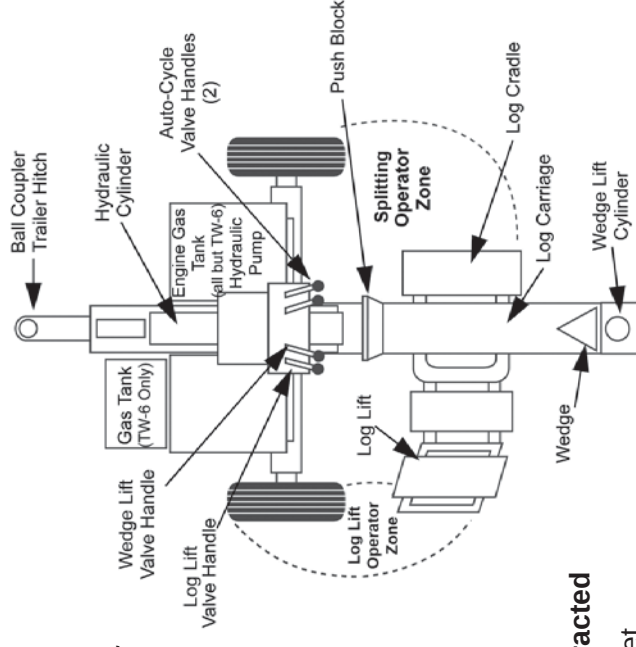
Operate the controls only while standing in the OPERATOR ZONE shown in the sketch below. Never operate the log splitter from any other location.

- Read engine manual for starting and maintenance instructions
- Let engine run for at least ten (10) minutes (or longer in cold weather) to allow the hydraulic oil to warm up to at least 80° on temperature guage

Note

Read engine manual first. Always run the engine between $\frac{3}{4}$ throttle and full throttle.

- Handle logs from the sides only, 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



Operating The Controls

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

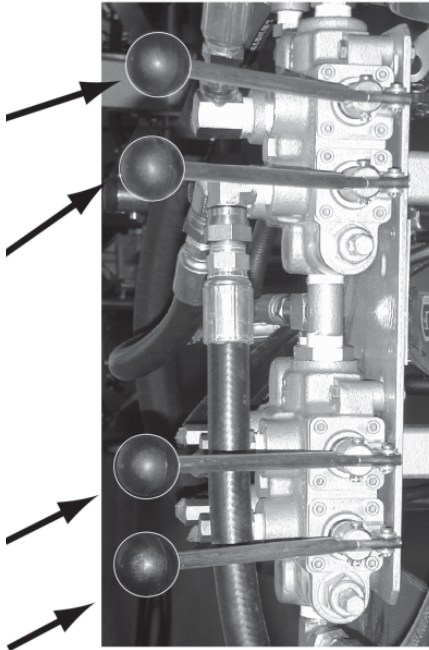
NOTE

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 on the next page.

⚠ 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 RETURN MANUAL CYCLE 2	



Auto Cycle Controls and Operation

For automatic operation of the complete splitting cycle:

1. Steady log by placing your left hand on top, midway between its two ends
2. With your right hand, move both handles towards the wedge at the same time to their stop position (detent)
3. Hold handles at the stop position and continue to steady the log only 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 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

- *Make certain nothing gets behind push block to interfere with it when it retracts*
- *To stop the automatic cycle at any time, move both handles to the neutral position (away from the wedge)*
- *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*
- *To resume the splitting cycle after a stop, move both handles back into their locked positions*

Manual Operation

To use the auto-cycle controls for manual operation:

1. Move the **FORWARD** stroke handle toward the wedge to its stop position (detent) to start the splitting cycle
2. Move the **FORWARD** stroke handle after the log is split so that it returns to the neutral position
3. Move the **RETURN** stroke handle towards the wedge to its stop position (detent) to start retracting the push block
4. **RETURN** stroke handle snaps back to neutral position when push block is all the way back

Forward and return stroke can be interrupted at any time by moving the control lever to the neutral position.

Using The Log Lift



WARNING!

Walk around the trailer hitch when moving between the two operator zones.

1. Move the log lift lever towards the wedge to fully lower the lift platform
2. Roll a log (less than 500 lbs) onto the lift platform
3. Move the log lift control valve handle away from the wedge to raise the lift platform until the log rolls onto the cradle
4. Return from the log lift operator zone to the splitting operator zone
5. Keep lift raised while starting the splitting cycle
6. Complete the splitting cycle. *(You cannot operate the log lift and split at the same time. Raising or lowering the lift while splitting will interrupt the cylinder travel)*

Wedge Lift Operation

The wedge lift provides up to four inches of vertical adjustment of the slip-on wedges.

1. Adjust slip-on wedge height while log is on the cradle and before splitting
2. Move handle away from the wedge to raise wedge
3. Move handle toward the wedge to lower wedge
4. Complete the splitting cycle

Note

The wedge lift moves only while handle is held in the desired position.



TW2-HD Single Handle Control

1. Steady log by placing your left hand on top of it, midway between its two ends
2. With your right hand, move the handle toward the wedge to its stop position
3. Hold handle at the stop position and continue to steady the log **only** 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
5. Push the lever toward the wedge until the log is split
6. Release handle and let it return to the neutral position
7. Move handle away from wedge into locked position
Push block starts automatic retract
8. Handle returns to neutral position automatically when push block is fully retracted

Notes

- To stop push block while it is extending, release control valve handle
- To stop push block while it is retracting, move control valve handle back to neutral position
- 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



Push lever towards the wedge and hold to split. Pull the lever back from the wedge to auto-retract.

Transporting the Log Splitter

Preparation

Never move the log splitter with the engine running.

Make sure fuel valve on log splitter engine is in the “OFF” position.

Note

If fuel valve isn't shut off, fuel will be forced into the cylinder and crankcase during travel. If that happens, the engine oil and spark plug will have to be replaced.

- Always release hydraulic system pressure before transporting the log splitter. See directions on page 30
- Remove optional 4-way or 6-way wedge
- Remove optional table grate (see directions on page 18) and transport it in the tow vehicle
- Make sure there are no loose parts or debris on the log splitter to drop while it's being towed
- Never tow the log splitter with a log on it
- Make sure the log lift is secured in the **up position and locked** with the angle iron supplied
- Make sure the support leg is pinned up and jack is retracted **all the way up** before transporting



Transporting the Log Splitter (continued)

- Raise hitch latch to unlocked position
- Make sure you are using a 2" ball
- Attach log splitter's 2" ball coupler firmly to 2" ball on tow vehicle hitch



- Lower hitch latch into locked position and secure with locking pin
- 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 up as it will go



WARNING!

Towing the log splitter can cause unstable driving 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

Transporting the Log Splitter (continued)

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 as optional equipment.

- 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 engine 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 Maintenance

- Check all fasteners; tighten any that are loose. 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 welding technician
- Check for and replace worn or damaged components

General Maintenance

- Grease push block and top of beam
- Check condition of the wear plates (movement side to side). If you can move the push block more than $\frac{1}{4}$ " to either side of the beam, wear plates and shims must be replaced
- 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

Note: See hydraulic safety instructions in this manual.

- *Unless you have been trained in servicing hydraulic systems, you must have a qualified hydraulic technician repair the system*
- *Do not change the pressure relief setting*
- *Always use hoses, connectors, valves and fittings that have the same specifications as the originals being replaced*

General Maintenance (Continued)

Note: See engine instructions manual for daily and regular maintenance requirements.

- Change engine oil according to engine owners manual
- Change the hydraulic oil and hydraulic oil filter after every two hundred (200) hours of operation
- Change all fluids and filter at least once a year

Note

If hydraulic oil becomes contaminated, change it immediately to prevent damage to the system.

See the hydraulic safety instructions in this manual.

Unless you have been trained in servicing hydraulic systems, you must have a qualified person repair the system.

Hydraulic Oil Filter

- 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 assembly indicates hydraulic filter condition



- Replace the filter when filter condition gauge needle first enters the yellow zone
- Check your levels carefully and make sure the hydraulic tank is 2 to 4 inches from the top of the tank or in the middle of the sight level gauge

Wedge

- Inspect wedges regularly
- Sharpen dull wedges with file or grinder

Wheel Bearings

- Grease wheel bearings annually
- Grease wheel bearings any time splitter is towed

Hydraulic Control Valve 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 with the engine running. Wait until tank is cool to the touch and make sure all residual hydraulic pressure has been released
- Always release system pressure before doing any service or maintenance. To release system pressure:
 1. Shut off engine
 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

Auto Cycle Valve Detent Adjustment

Note: *Make all adjustments with the log splitter at normal operating temperature.*

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).



Note

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

Normally both stop position screws (detents) have to be adjusted to make the auto cycle work properly.

Correct adjustment requires you to hold both handles in their forward stop position (detent) 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.

The stop position (detent) for each spool on the auto cycle valve must be adjusted periodically, depending upon use. If you're having problems making adjustments, the following information should help. As always, please call us if you have any questions or need help.

Troubleshooting

Note

“Left” and “right” in the following instructions are the directions when looking at the valve from the operating handle (wedge) end.

Push block will not extend completely:

Adjust FORWARD spool (closest to the tank)

- 1. Loosen jam nut
- 2. Turn adjusting screw clockwise one-quarter turn
- 3. Tighten jam nut
- 4. Split log to see if handle stays forward until the push block extends completely
- 5. Repeat adjusting and splitting until handle stays forward through the entire stroke

Note

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. Make small adjustments until engine speed remains fairly stable while the FORWARD lever returns to neutral position.

Push block will not return all the way:

Adjust RETURN spool (closest to the engine)

- 1. Loosen jam nut
- 2. Turn adjusting screw clockwise one-quarter turn
- 3. Tighten jam nut
- 4. Split log to see if push block will return on its own
- 5. Repeat adjusting and splitting until push block does return on its own

Troubleshooting (continued)

Both handles kick to neutral when push block is all the way forward:

Adjust RETURN spool (closest to the engine)

1. Loosen jam nut
2. Turn adjusting screw clockwise one-quarter turn
3. Tighten jam nut
4. Split log to see if push block will return on its own
5. Repeat adjusting and splitting until push block does return on its own

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

1. Loosen jam nut
2. Turn detent sleeve counter-clockwise one-quarter of a turn at a time until handle kicks back to neutral
3. Tighten jam nut
4. If that doesn't work, shut down the log splitter, release system pressure, remove entire valve assembly, and check for dirt or broken parts

Specifications

SPECIFICATIONS					
Models	TW-2HD	TW-5*	TW-5FC	TW-6	
Weight (lbs)	875	24" - 950 36" - 1250 48" - 1450	950	1475	
Splitting Force	20 tons	25 tons	20 tons	28 tons	
Engine Size	GX270 270z CC	GX340 337 CC	GX340 337 CC	GX630 688 CC	
Hydraulic Pump	16 gpm	22 gpm	22 gpm	22 gpm	
Max Log Length	24	24/36/48	24	24	
Cylinder Size	24 x 4 x 2in	24 x 5 x 2in 36 x 5 x 2in 48 x 5 x 2in	24 x 4 x 2in	24 x 5 x 3.5in	
Cycle Time (seconds)	9	10	6	8	
H Beam Frame	6.5 x 8	6.5 x 8	6.5 x 8	6.5 x 8	
Hitch	2" Ball Coupler	2" Ball Coupler	2" Ball Coupler	2" Ball Coupler	
*Note: The 36" and 48" extended stroke TW-5 's have correspondingly longer cylinders and cycle times.					

Limited Warranty

Product Covered	This warranty is for Timberwolf log splitters.
Date Warranty Begins	The warranty begins on the date of sale and is warranted by Timberwolf Manufacturing Corporation 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 purchaser for a period of time of one year.
What Is Not Covered By This Warranty	This warranty does not apply to parts that have been damaged by accident, alteration, misuse, abuse or improper lubrication. Charges for pickup, delivery, and service calls are not covered by this warranty. The engine is warranted separately by the engine manufacturer.
Limited Rental Use Warranty	If used for rental purposes (to produce an income by renting this equipment), 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 rental use is warranted separately by the engine manufacturer.
How To Get Service	To obtain service, contact our nearest dealer, or Timberwolf Manufacturing Corporation at 126 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 Manufacturing Corporation 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.

Limited Warranty (Continued)

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 rental 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.

Please return your warranty card or you can register your splitter online @ www.timberwolfcorp.com/warranty

Maintenance Log	

OPERATOR'S MANUAL



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