

Vertical & Horizontal Log Splitter Models: LS5-4 (20Ton), LS9-4 (22Ton), LS9-5 (28Ton), LS13-4 (30Ton), LS13-5 (34Ton)



Operation & Safety Manual



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Initial Start-up Instructions

- ✓ Write the serial number and date-of-purchase in this manual.
- ✓ Fill the hydraulic tank with the recommended type and quantity of oil. (See "Start-Up Procedure" section.)
- ✓ Make sure the engine crankcase with the manufacturer's recommended type and quantity of oil. (See "Start-Up Procedure" section.)
- ✓ Fill the engine fuel tank with fresh, clean, lead-free gasoline. (Do not mix oil with gasoline.)
- ✓ Bleed the air out of the cylinder before starting the log splitter. (See "Start-Up Procedure" section.)
- ✓ Make sure the trailer hitch of the towing vehicle is equipped with a 2 inch ball.
- ✓ Read operating and safety instructions.

Serial Number	_
Model Number	
Date-of-Purchase	

Keep this manual for future reference.

NOTE: *US Praxis*, Inc reserves the right to make technical changes for product improvement. This manual may contain illustrations and photographs, for demonstration purposes, which slightly deviate from the actual product design.



Contents

Introduction	5
Safety	6
Personal Protection	6
Worksite Safety	6
Operating Safety	6
Log Splitting Safety	6
Maintenance and Repair	6
Towing	7
Refueling / Fire Prevention	8
Unpacking the Crate	8
Start-Up Procedure	9
Towing	10
Operation	10
Operation - Horizontal Position	11
Operation - Vertical Position	12
Inspection and Maintenance	13
General Maintenance Check (before operating)	13
Engine Service	13
Storage	13
Hydraulic Oil Change	13
Specifications	15
Mechanical Specifications	15
Hydraulic Specifications	15
Hydraulic Oil Specifications (non foaming)	15
Decals	16
Parts	17
Troubleshooting	18
Warranty	19
Parts List	20/25



WARNING

To avoid personal injury or death, carefully read and understand all instructions pertaining to your new Log Machine.

Do not attempt to operate, or maintain our product without fully understanding all our instructions and safety precautions.

Do not operate the log splitter unless you read and understand the instructions and warnings in this manual. If any doubt or question arises about the correct or safe method of performing anything found in this or other *US Praxis* manuals, contact your Sales and Service representatives at our main headquarters. Proper care is your responsibility.

WARNING

Accidents can often be avoided by being alert and recognizing potentially hazardous situations. Any individuals operating, maintaining, or repairing products manufactured by *US Praxis* should have the necessary training, skills, and tools required to perform these functions properly and safely. The safety information in this manual serves as a basic guide in an attempt to prevent injury or death. *US Praxis* cannot anticipate every possible circumstance that might involve a potential hazard. The warnings in this manual and on the product itself are, therefore, not all inclusive. If tools, procedures, work methods, or operating techniques that are not specifically mentioned by *US Praxis* Products are used, you must satisfy yourself that they are safe for you and for others. Make sure the log splitter will not be damaged or made unsafe by any operation, lubrication, maintenance, or repair procedures that you choose. DO NOT proceed if any doubt arises about the correct or safe method of performing anything found in this or other *US Praxis* manuals. Seek out expert assistance from a qualified person before continuing.

WARNING

CALIFORNIA PROPOSITION 65

Engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.



Introduction

This commercial Vertical/Horizontal Log Splitter is designed for tough applications in both vertical and horizontal positions. With up to 34 tons of splitting force, a 15 second cycle time, and a 13 HP engine, the LS13-5 will handle most of your log splitting needs. An attractive, powder-coated finish provides the finest protection available and *US Praxis* rigid, quality-control and component testing help ensure years of productive, reliable service. *US Praxis* has stood for quality and reliability when it comes to log splitters and wood processing products. *US Praxis* Products offers the finest commercial log splitter on the market today!

- Rugged, heavy-duty construction for years of exceptional service.
- Ergonomic design for use in vertical and horizontal operating positions.
- Rigid, quality-control during manufacturing ensures greater reliability.
- Factory testing of all major components and hydraulic tank.
- Powder-coated finish for the best appearance and weather protection.
- Year-round manufacturing, parts, and support.

For additional information, contact us at: *US Praxis*, Inc 955 W. Prairie Drive Sycamore, Illinois 60178 Phone: (815) 899 - 9700 Fax: (815) 899 - 9709

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Safety

The following is a list of safety rules you must follow in order to use your log splitter safely. Personal Protection

- To avoid personal injury or death carefully read and understand all instructions pertaining to the log splitter including the engine manufacturer's operating and maintenance instruction manual.
- Always wear protective gear, such as safety goggles, tight-fitting gloves without draw strings or loose cuffs, steel-toed shoes, and a protective hearing device.
- To prevent injury, make sure all decals are attached to the log splitter and are legible at all times.



Worksite Safety

- To avoid tripping, do not leave tools, logs, or other components lying around the work area.
- NEVER operate your log splitter on slippery, wet, muddy, or icy surfaces. The location you choose should be flat, dry, and free from any tall grass, brush, or other interferences.
- NEVER operate the engine in an enclosed area. Exhaust fumes contain carbon monoxide that can be deadly when inhaled. Make sure the area is well ventilated.
- NEVER attempt to move your log splitter over hilly or uneven terrain without a tow vehicle.
- NEVER use your log splitter at night.
- ALWAYS operate your log splitter on dry, solid, level ground.
- ALWAYS block the wheels to prevent movement of the machine while in operation.

Operating Safety

- ALLOW ONLY ONE (1) PERSON TO LOAD AND OPERATE THE LOG SPLITTER.
- Allow only adults to operate the log splitter. No one under the age of 18 should be allowed to operate the log splitter.
- Always keep bystanders, including children and pets, at least twenty-five (25) feet away from the work area. Only the operator should stand near the equipment and only within the safe operating area prescribed in this manual (see the photos on safe and unsafe operating zones in the "Operation" section).
- When the ram of the log splitter is in the return mode, keep your hands off the machine the log splitter is designed to automatically stop when the cylinder is fully retracted.
- ALWAYS disconnect the spark plug wire when the log splitter is not in operation.
- Do not allow any person to operate the log splitter until they have read and understood the safe operating instructions contained in this manual.
- Do not, under any circumstances, alter your log splitter. This equipment was designed and engineered to be
 used in accordance with the operating instructions. Altering the equipment, or using the equipment in such
 a way as to circumvent its design capabilities and capacities, could result in serious or fatal injury and WILL
 VOID THE WARRANTY.
- Never operate, or allow anyone else to operate, this equipment while under the influence of medication, drugs, or alcohol.
- Never wear loose clothing or jewelry that may get caught or become entangled in the log splitter.
- NEVER place hands or feet between log and splitting wedge or between log and ram during the forward or reverse stroke.
- DO NOT STRADDLE OR REACH ACROSS THE SPLITTING AREA WHEN OPERATING THE LOG
 SPLITTER
- Do not step over your log splitter when the engine is running, because you may trip or accidentally engage the ram
- NEVER attempt to load your log splitter while the ram is in motion.
- Only use your hand to operate the control lever. NEVER use your foot, knee, a rope, or any other extension device.

Log Splitting Safety

- Always keep your fingers away from any cracks that open in the log during the splitting operation.
- ALWAYS make sure that both ends of the log you are splitting are cut as square as possible. This will
 prevent the log from sliding out of position while under pressure. Logs should be 24 inches or shorter in
 length.
- NEVER try to split two logs on top of each other.
- Never pile logs to be split in a manner that will cause you to reach across the log splitter.



Maintenance and Repair

- Follow all safety rules, because most accidents involving the operation, maintenance, or repair of products
 occur because the assembler/owner/operator failed to observe basic safety rules or operating instructions.
- ALWAYS inspect your log splitter before each use. Make sure all nuts, bolts, screws, hydraulic fittings, hose clamps, etc. are securely tightened.
- ALWAYS check the oil level in the hydraulic oil tank and engine reservoir.
- NEVER operate your log splitter when it is in need of repair or is in poor mechanical condition.
- NEVER tamper with the engine to run it at excessive speeds. The maximum engine speed is preset and is within safety limits.
- NEVER make alterations to your log splitter in any manner. Such alterations may cause the log splitter to become unsafe and WILL VOID THE WARRANTY.
- NEVER attach a rope or extension to the control lever or add width or height to the splitting wedge. Such ALTERATIONS may cause the log splitter to become UNSAFE and WILL VOID THE WARRANTY.
- ALWAYS clean the unit after each use. If possible, store the unit inside or cover it completely, if stored outside.

Towing

- ALWAYS check before towing to make certain your log splitter is correctly and securely attached
 to the towing vehicle. Be sure that the ball hitch you are using is the proper size for the hitch
 coupler on the log splitter (see "Specification" section). Be sure the safety chains are properly
 hooked to the vehicle leaving enough slack for turning.
- ALWAYS allow for added length of the log splitter when turning, parking, crossing intersections, and in all driving situations.
- ALWAYS be careful when backing up. You could jackknife your log splitter if care is not taken.
- ALWAYS disconnect your log splitter from your towing vehicle before attempting to use it.
- NEVER exceed 45 M.P.H. when towing your log splitter. Obey all state and local regulations when towing on state and local roads and highways. Adjust your speed for terrain and conditions, as needed. Be extra cautious when towing over rough terrain, especially over a railroad crossing.
- NEVER tow your log splitter when there is fuel in the engine's tank.
- NEVER allow anyone to sit or ride on your log splitter.
- NEVER carry any cargo or wood on your log splitter.



Refueling

- ONLY refuel the log splitter outdoors in a clear area void of gas fumes or spilled gasoline.
- ALWAYS use an approved fuel container to carry gasoline.
- ALWAYS replace the log splitter gas cap and the fuel container cap securely.
- If gasoline is spilled, move the machine away from the area of the spill and avoid creating any source of ignition until the spilled gasoline has completely evaporated.
- Take a class B fire extinguisher with you when operating the log splitter in dry areas as a precautionary measure against possible flying sparks.
- Always store gasoline in an approved, tightly sealed container. Store the container in a cool, dry place. Do not store the container in a house or near any heating appliance.
- Do not smoke or have open flames when refueling the engine. Do not spill fuel. If fuel should spill, quickly wipe up the spill and allow the excess to evaporate before continuing. Make sure gasoline soaked rags are properly disposed of.
- DO NOT fill the gas tank while the engine is hot or running. Allow time for the engine to cool down before refueling.
- Preventing Fires
- NEVER operate the log splitter near a flame or spark. Oil and gasoline are flammable and can
 explode.
- NEVER smoke while operating or refueling the log splitter. Gasoline, oil, and even gas fumes can explode.

Important Notice

The log splitter is equipped with an internal combustion engine and should not be used on or near any unimproved forest-covered, brush-covered, or grass covered land unless the engine's exhaust system is equipped with a spark arrester meeting local or state laws (if any). If a spark arrester is used, it should be maintained in effective working order by the owner and/or operator.

UNPACKING MACHINE

- 1. Remove protective wrapping material from the log splitter machine / crate and cut all banding material.
- 2. Carefully remove machine from the crate and your log splitter will be ready to be filled with proper fluids and fuel making it ready for use.
- 3. Dispose of all bands, protective wrapping material and crating materials per local requirements in your area.
- 4. Remove Operation and Safety Manuals reading them to understand the operation / safety procedures before operating the log splitter. Keep these manuals located where they can be referred to easily.



Start-up Procedure

Important Notice

Follow all of the instructions in the "Start-up Procedure" before starting the engine and operating the log splitter. Failure to follow this recommendation will result in engine and hydraulic pump damage.

If this log splitter is purchased without an engine, the customer assumes all liabilities that might arise from an engine that is incompatible with the design of the log splitter. Also, any unauthorized changes or modifications to the log splitter will void all warranties.

IMPORTANT: The hydraulic system oil filter, for your log splitter, is to be factory installed. Make sure the filter is installed before attempting to fill the hydraulic tank or start the engine.

IMPORTANT: Before starting the engine, read the engine manufacturer's operating and maintenance instruction manual. If an engine manual was not supplied with the log splitter, it is your responsibility to obtain a manual. Start by contacting the dealer where you purchased the log splitter or US *Praxis* directly. If they cannot help you, contact the engine manufacturer.

1. Fill the hydraulic tank with SAE 10W tractor hydraulic oil or automatic transmission fluid, such as Dextron III. The tank is full when the oil level is approximately one inch from the top of the tank. Do not tighten the fill cap at this time.



NOTE: The total hydraulic system oil capacity for this unit is approximately 10 gallons.

2. Check oil level and fill the engine's crank case with the engine manufacturer's recommended oil if necessary, 5W 30 is used at the factory.



3. To help prevent wear between the slide plates and I-Beam rail lubricate the surfaces with grease.



- 4. Remove the spark plug wire from the engine. This prevents the engine from starting until the hydraulic pump and cylinder are completely filled with oil. Make sure the spark plug wire is held away from the spark plug with string or other nonconductive material.
- 5. Push the valve control handle to the forward position (towards the front of the cylinder) with one hand. Pull the engine starter cord (about 15 times) with the other hand, until the cylinder piston moves forward. (Keep everything away from the splitting wedge during this step.)

NOTE: Extending the cylinder draws the hydraulic fluid through the system and expels any trapped air in the cylinder.

6. Check the fluid level in the hydraulic tank and add oil as needed.

WARNING

Be careful not to spill fuel when filling the engine. If fuel should spill, quickly wipe off and allow the excess fuel to evaporate before continuing. Fuel and fuel vapors are highly flammable and can cause personal injury or even death when ignited.

Important Notice

Do not mix oil with the gasoline. Using mixed oil/gasoline in a four cycle engine can cause engine damage.

- 7. Fill the engine's fuel tank with fresh, clean, lead-free automotive gasoline.
- 8. Attach the spark plug wire and start the engine per the manufacturer's instructions.
- 9. With the engine running, push the valve control handle to the retract position and retract the cylinder piston. The cylinder valve will automatically stop the cylinder from retracting when it reaches the end of its stroke. Cycle the log splitter several times.
- 10. Again, check the fluid level in the hydraulic tank and add oil as needed. Replace and tighten the fill cap.
- 11. Your log splitter is now ready to use.

Towing

WARNING

Maximum Speed Limit — 45 mph

Your log splitter is built on a solid, unsuspended axle. To prevent damage or possible loss of vehicle control, use extreme caution when towing and do not exceed a vehicle speed of 45 mph, especially when driving on a bumpy road.

- Position the hitch coupler of the log splitter over or onto the tow vehicle's tow ball. In some cases, the hitch coupler may not totally engage with the tow ball without raising the jack leg assembly.
 Pull the latch assembly on the hitch coupler up and into the open position.
- Release the latch assembly on the hitch coupler and lock the hitch coupler onto the tow ball.
- Raise the front leg to the towing position by pulling the spring pin. If not already secure, make sure the hitch coupler is properly and securely attached to the tow ball.
- Attach the towing safety chains to the tow vehicle.
- Place a customer supplied lock or lock pin into the latch assembly of the hitch coupler.

WARNING

Making sure the log splitter is securely attached to the vehicle is the responsibility of the owner/operator. Failure to securely attach the log splitter can cause loss of control of the vehicle or the log splitter being separated from the towing vehicle, resulting in serious injury or death



Operation

WARNING

Do not attempt to operate the log splitter without fully understanding all our instructions, safety precautions, and/or warnings. If any doubt or question arises about the correct or safe method of performing anything found in this or other *US Praxis* manuals, contact your Sales and Service representatives at our main headquarters at (815) 899-9700. Proper care is your responsibility. When operating the log splitter, make sure you are standing in the safe operating area, as shown in these pictures. You must stay in the safe operating area at all times when the splitting wedge is in motion (whether extending or retracting). Never place any part of your body into a position that causes an unsafe operating condition.

1. Set your log splitter on flat, dry ground. Make sure you read all the recommendations from the "Safety" section before using the log splitter.



2. Make sure both ends of the log you are splitting are cut as square as possible. This will prevent the log from sliding out of position while under pressure. All logs should be 24 inches long or shorter.



WARNING

Never attempt to split wood across the grain. The log splitter was not designed for cross-grain splitting. Doing so will damage the log splitter and may cause personal injury.

3. Start the engine using the instructions from the engine manual. If the log splitter has not been running (cold engine), warm up the engine and hydraulic system by running the engine at half throttle for 3 to 4 minutes, then advance the engine throttle control to maximum speed.

Operation – Horizontal Position

WARNING

Before loading and operating the log splitter, always wear protective gear, such as safety goggles, face shield, hearing protection, tight-fitting gloves without draw strings or loose cuffs, and steel-toed shoes.

4. Use the following photos for the correct and incorrect methods of splitting logs. Never split a log using an incorrect or unsafe method.



• Place the log on the log splitter. Grasp the log on the sides near the middle of the block. Center the log, side-to-side, on the rail of the log splitter, making sure that the sawed end is against the large plate (base plate) at the opposite end of the hydraulic control valve control lever.

CAUTION

Do not place your hands on the ends of the log when loading the log splitter. This is a very UNSAFE method and could result in injury to your hands.

• b. Only using your hand, push the control lever forward (towards the log). If the log moves, before it is contacted by the splitting wedge, release the control lever and then reposition the log. Operate the log splitter only when standing in the safe operating area, shown in the picture.

CAUTION

Make sure you stand clear from the engine's exhaust. Hot exhaust is intense and can cause serious injury.

CAUTION

If you find you must hold the log until the wedge touches it and holds it in place, be very careful not to put your hand between the log and the end plate or the log and the wedge. If you must, hold the log on top and in the middle. Remove your hand immediately when the splitting wedge engages the log. Never use your hip or any extension device to operate the valve control handle.

WARNING

Do not operate the log splitter by reaching across the rail. This is a very UNSAFE method which could cause personal injury or even death.

WARNING

Do not reach or step across the rail while the log splitter is running. This is a very UNSAFE method which could cause personal injury or even death.

- c. Hold the control lever, extending the splitting wedge, until the log is split or the cylinder rod stops at its maximum travel position. Stop the log splitter (forward movement); at any point in the splitting process, if you feel an unsafe log splitting condition is occurring. As the log is being split, DO NOT reach forward and attempt to catch the split wood let it fall to the ground.
- d. Once the wedge reaches its full forward travel, pull back on the control lever to the full retract position. The ram of the cylinder will automatically retract into the cylinder. It is not necessary to hold the control lever as the cylinder retracts. Stop the wedge if the log sticks (see caution below). When the cylinder is fully retracted, the control valve will automatically shift to a neutral position.
- e. DO NOT load another log or remove split pieces until the wedge has completely stopped and the control handle automatically returns to the neutral position.

CAUTION

Depending on the type of wood being split, a log may not always break into two pieces and fall to the ground. If a log sticks to the wedge, place the valve handle in the neutral position (stop the wedge from retracting) and carefully remove the log from the wedge. Allowing the log to remain attached to the wedge when it is fully retracted could lead to possible injury and/or damage to the log splitter.



Operation – Vertical Position

WARNING

Before loading and operating the log splitter, always wear protective gear, such as safety goggles, face shield, hearing protection, tight-fitting gloves without draw strings or loose cuffs, and steel-toed shoes.

5. Use the following photos for the correct and incorrect methods of splitting logs. Never split a log using an incorrect or unsafe method.

- To operate the log splitter in a vertical position, remove the spring-loaded locking pin out of the lock down plate.
- Block the wheels and stand the rail assembly up into a vertical position.
- Swing the vertical position; locking lever into position over the I-Beam.
- Move the log under the splitting wedge keeping your hands on the sides of the log near the middle of the block. Center the log making sure that the sawed end is sitting on the large plate (base plate).

CAUTION

Make sure you stand clear from the engine's exhaust. Hot exhaust is intense and can cause serious injury.

CAUTION

Do not place your hands on top of the log when loading the log splitter. This is a very UNSAFE method and could result in injury to your hands.

CAUTION

If you find you must hold the log until the wedge touches it and holds it in place, be very careful not to put your hand on top of the log. If you must, hold the log in the middle of the block. Remove your hand immediately when the wedge engages the log. Never use your hip or any extension device to operate the valve control handle.

- Only using your hand, push the control lever down (towards the log). If the log moves, before it is
 contacted by the splitting wedge, release the control lever and then reposition the log. Operate
 the log splitter only when standing in the safe operating area, as shown in the picture.
- Hold the control lever, extending the splitting wedge, until the log is split or the cylinder rod stops
 at its maximum travel position. Stop the log splitter (forward movement); at any point in the
 splitting process, if you feel an unsafe log splitting condition is occurring. As the log is being split,
 DO NOT reach forward and attempt to catch the split wood let it fall to the ground.
- Once the wedge reaches its full forward travel, pull back on the control lever to the full retract position. The ram of the cylinder will automatically retract into the cylinder. It is not necessary to hold the control lever as the cylinder retracts. Stop the wedge if the log sticks (see caution below). When the cylinder is fully retracted, the control valve will automatically shift to a neutral position.
- DO NOT load another log or remove split pieces until the wedge has completely stopped and the control handle automatically returns to the neutral position.

CAUTION

Depending on the type of wood being split, a log may not always break into two pieces and fall to the ground. If a log sticks to the wedge, place the valve handle in the neutral position (stop the wedge from retracting) and carefully remove the log from the wedge. Allowing the log to remain attached to the wedge when it is fully retracted could lead to possible injury and/or damage to the log splitter.



Inspection and Maintenance

General Maintenance Check (before operating)

The hydraulic system (hoses, cylinder, and pump) should be carefully inspected before each use. Also, inspect the mechanical parts at the same time. Make sure all clamps, nuts, bolts, fittings, etc. are properly installed and tightened.

WARNING

Do not check for leaks with your hand. Leaks can be located by passing a piece of cardboard or wood around the suspected leak and looking for discoloration. High-pressure fluid escaping from a very small hole can be almost invisible. Escaping fluid under pressure can have sufficient force to penetrate skin, causing serious injury or even death. If fluid is injected into your skin, it must be treated immediately by a doctor familiar with this type of injury.

Always replace frayed, kinked, or cracked hoses and/or other damaged hydraulic components with *US Praxis* Products authorized parts and components specified in the "Parts" section of this manual. Replacement parts from secondary suppliers (not original *US Praxis* replacement parts) can lead to product damage and/or personal injury, and will void the warranty.

CAUTION

Do not remove the cap from the hydraulic tank or reservoir while the log splitter is running. Hot oil, under pressure, could be expelled resulting in serious injury.

Should it become necessary to loosen or remove any hydraulic fitting or line, be sure to relieve all hydraulic pressure by shutting off the engine, removing spark plug wire, and moving the valve control handle back and forth several times until no cylinder movement is visible.

Engine Service

Refer to the engine manufacturers' manual for engine maintenance and repair.

Storage

Refer to the engine manufacturers' manual for engine storage. No special procedures are required for the hydraulic system to store the log splitter.

Hydraulic Oil Change

We recommend oil and filter change every 100 hours of operation. Refer to the "Specifications" section, in this manual, for the type and quantity of oil.

Important Notice

Never run the log splitter unless the hydraulic oil tank is full.

- 1. Drain the head end of the cylinder.
 - Remove the spark plug wire and spark plug to help reduce the back pressure on the engine and to prevent it from starting.
 - Disconnect return hose (1) from the oil filter housing and place it in a waste oil container. (Please properly dispose of the waste oil per local regulations.)
 - Extend the cylinder by holding the valve handle forward and pulling on the engine's pull start cord until oil from the return line stops flowing. This step drains the head end of the cylinder.
- 2. Drain the hydraulic tank.
 - Place a waste oil container under inlet hose (2).
 - Remove the inlet hose from the pump.
 - Slightly lower the front of the log splitter to completely drain the tank.
- 3. Remove and replace the oil filter.
 - Remove the existing oil filter and properly dispose of it.
 - Apply a thin coat of oil to the new o-ring and insert it snugly into the groove in the oil filter housing.



• Screw the filter onto the filter head. Once the filter makes contact with the filter head, turn it an additional ¾ turn. Hand-tighten only.

Important Notice

DO NOT mix tractor hydraulic oil with transmission fluid. Use one or the other.

- 4. Refill the hydraulic tank.
 - Reconnect inlet hose (2) to the pump.
 - Remove the hydraulic tank fill cap and fill the tank with the recommended type and quantity of oil.
 Replace the cap.
- 5. Drain and refill the piston end of the cylinder.
 - Hold the valve handle in the retract position and pull the engine pull start cord until the rod is fully retracted. This step removes the old oil from the piston end of the cylinder.
 - Reconnect return hose (1) to the oil filter.
 - Extend the cylinder, by holding the valve handle forward and pulling on the engine's pull start cord, until the cylinder is completely extended. This step refills the piston end of the cylinder.
- 6. Start the engine and cycle the cylinder.
 - Replace the spark plug and spark plug wire.
 - Start the engine and cycle the cylinder several times.
 - Retract the cylinder and shut off the engine.
 - Recheck the hydraulic tank to make sure oil is filled within one inch from the top of the tank.



Specifications

Mechanical Specifications
Slide Rail
Wedge
Force/Tonnage
Cylinder Stroke
_og Opening
Cycle Time
Operating Positions
Wheels & Tires
Safety Chains Standard
2" Hitch Coupler Standard
Engine
Hydraulic Specifications Cylinder Size
For extremely warm weather conditions
DO NOT mix tractor hydraulic oil with transmission fluid. Use one or the other.

Engine Service

Refer to the engine manufacturers' manual for engine maintenance and repair.

Storage

Refer to the engine manufacturers, manual for engine storage. No special procedures are required for the hydraulic system to store the log splitter.



Decals **WARNING**

Make sure all decals are attached to the log splitter and/or engine and are legible at all times.



Troubleshooting

The following section will detail procedures for checking your log splitter, should you encounter a malfunction. We recommend that you do not attempt to make repairs to the log splitter. In the long run, it is better to take your log splitter to a servicing lawn and garden dealer for repairs.

Problem: When the control handle is pushed forward (extend), the splitting wedge does not move.

- Check the hydraulic tank to make sure the oil level is one inch from the top of the tank.
- Remove the pump from the engine flange. Check the coupler, making sure the drive keys are in place and there is no damage to the urethane spider.
- Disconnect the splitting wedge from the cylinder. Grasp the hydraulic cylinder shaft and try to pull it out. If the rod comes out easily, you will need to rebuild or replace the cylinder.
- Once you have determined that the engine-to-pump coupler is intact and the cylinder is in good condition, you will need to replace the pump.

Problem: The engine stalls when the splitting wedge engages the wood.

- The engine may not be properly adjusted. Take the engine to a service center for repair and/or adjustment.
- If all engine settings are correct, replace the pump.

Problem: The splitting wedge moves slowly, but will split wood.

- Check the oil level in the hydraulic tank and fill if necessary.
- Check the high-pressure hose, fittings, and valve openings for dirt and debris that may have obstructed the openings.
- If the ram speed is still slow, replace the pump.

Problem: The ram will not automatically retract.

- Check the slide rail or splitting wedge for damage.
- Push the valve handle to the retract position. If the handle will not stay in this position, adjust valve detent, as described below.
- Detent Adjustment Procedure
 - Locate adjustment screw on lower side of valve body.
 - Loosen locknuts.
 - o Turn adjustment screw clockwise one-half turn and retighten locknuts.
 - Start the engine and test for detent operation. If detent does not work, repeat Steps b and c.
- If adjustment of detent does not correct the problem, replace the valve assembly.

Problem: Oil squirts from the fill plug during operation.

- The oil tank may be over-filled. Drain oil to 1 inch below the top of the tank.
- The log splitter is not level. Make sure the log splitter is on level ground.



Warranty

For two year from the date of purchase or one year in a commercial environment, *US Praxis*, Inc. will replace for the original purchaser, or repair free of charge, all parts of the *US Praxis* log splitter, returned to our factory PREPAID and found upon inspection by us to be faulty, due to defects in materials or workmanship. The warranty shall not apply to any unit which has been overloaded or misused or which has been installed, used, or operated contrary to our instructions, or which has been repaired or altered by anyone other than our authorized representative. We shall not be liable for any contingent liabilities arising out of the improper function of any parts.

We make NO WARRANTY with respect to parts NOT of our manufacture, but we will carry out the terms of the warranties of their respective manufacturers. If a service representative cannot be found in your area, call *US Praxis* at (815) 899-9700. Have your model and serial number on hand before calling.

Important Warranty Information

You warranty was activated when your US Praxis log splitter was shipped to you. If you have any questions you can direct them to the manufacturer.

US Praxis, Inc 955 W. Prairie Drive Sycamore, IL 60178 (815) 899-9700 http://www.uspraxis.com/

