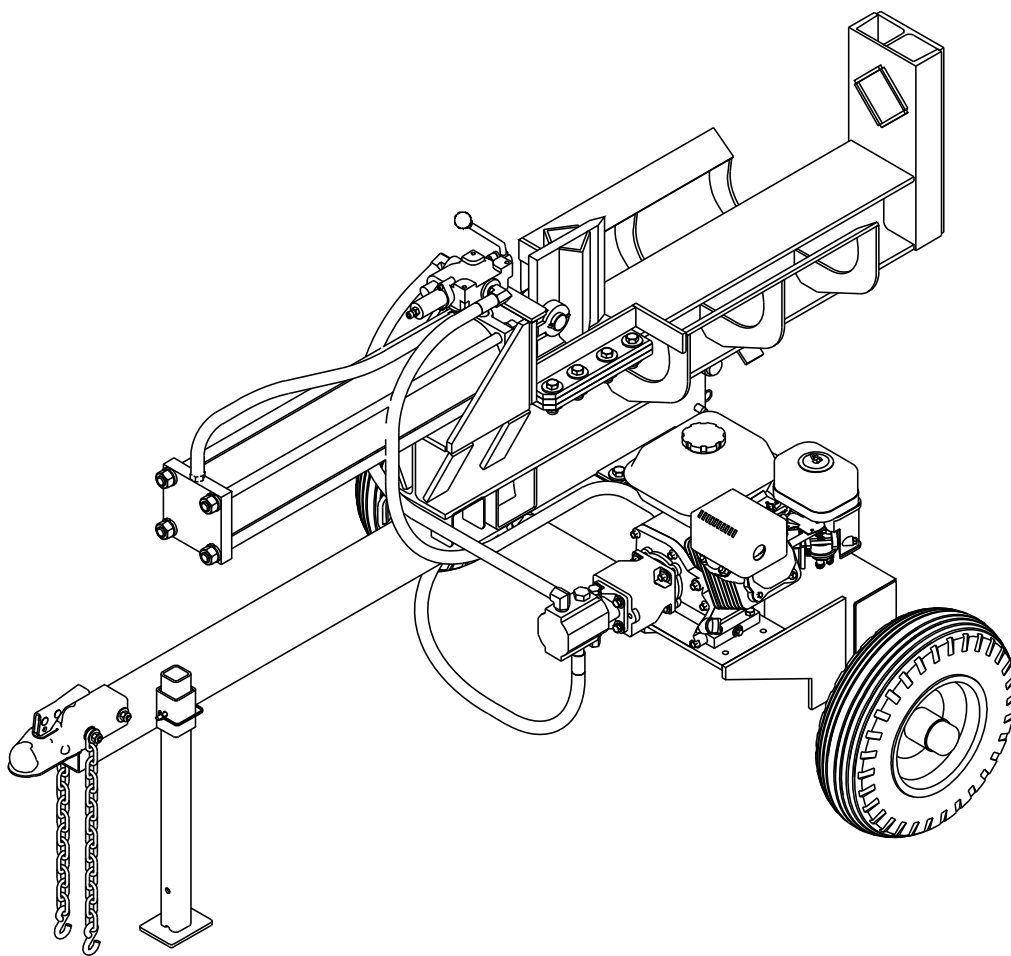




Operator's Manual  
**27-Ton  
Log Splitter  
W2700 Series**



**W2700V WITH VIPER ENGINE**

**W2700B 11.50 GROSS TORQUE  
BRIGGS AND STRATTON**



## W2700 LOG SPLITTER

### 1-YEAR LIMITED WARRANTY

#### Terms and Conditions

Ardisam, Inc., warrants this **EARTHQUAKE® LOG SPLITTER** to be free from defects in the material or workmanship for a period of one year from the date of purchase. During the one year warranty of this product, Ardisam will furnish 100% parts and labor to correct any defect caused by faulty material or workmanship. Any unit used in a commercial application is covered for a period of 90 days after purchase. The engine is covered under a separate warranty issued by the engine manufacturer as stated in the engine manual.

If warranty work needs to be done, contact your place of purchase or Ardisam, Inc. for an authorized service center in your area. Ardisam will make the necessary repairs if a service center is not available. **To obtain warranty service and/or replacement instructions, you must have prior approval from Ardisam before shipping your package to us by calling our customer service department at 800-345-6007 for a return material authorization number (RMA#).** All items must be shipped prepaid. Ardisam, Inc. will at no charge, repair or replace, at their discretion, any defective part which falls under the conditions stated above.

Ardisam retains the right to change models, specifications and price without notice. This product if used as intended, will give you years of trouble free service. We hope you will enjoy the quality of our products for years to come.

**For replacement parts, phone 800-345-6007 or go online to [www.GetEarthquake.com](http://www.GetEarthquake.com).**

*This warranty applies to the original owner with a proof of purchase and is not transferable. It supersedes all other warranties either expressed or implied and all other obligations to liabilities on our part. Ardisam, Inc. does not assume, and does not authorize any other person to assume for us, any liability in connection with the sale of our products.*

*The warranty applies only to products which have not been subjected to negligent use, misuse, alteration, accident or repairs made by anyone not certified by Ardisam, Inc. This guarantee is void unless the warranty card is properly filled out and received by Ardisam, Inc., within 30 days of purchase or go to [www.GetEarthquake.com](http://www.GetEarthquake.com) for online registration.*

### REGISTRATION, SERVICE AND MAINTENANCE LOG

Record the model number and serial number in the space provided for easy reference. Warranty is valid only if the completed registration is received by Ardisam, Inc. within 30 days of purchase. If you do not have a computer, call our customer service department at (800) 345-6007 Mondays through Fridays from 8 a.m. to 5 p.m. CST.

| OWNERSHIP RECORDS |                 |                       |
|-------------------|-----------------|-----------------------|
| Owner's Name:     |                 |                       |
| Owner's Address:  |                 |                       |
| City:             | State/Province: | Zip Code/Postal Code: |
| Model Number:     | Serial Number:  |                       |
| Date of Purchase: |                 |                       |
| Notes:            |                 |                       |
|                   |                 |                       |
|                   |                 |                       |



## INTRODUCTION

### THANK YOU . . .

for purchasing an Earthquake® Log Splitter from Ardisam, Inc., and congratulations on your investment in quality. We have worked to ensure that this log splitter meets the highest standards for usability and durability. With proper care, your splitter will provide many years of service. Please take the time to read this manual carefully to learn how to correctly operate and maintain your log splitter. This manual should be considered a permanent part of your splitter. Due to continuous efforts to perfect our product, certain procedures and specifications are subject to change without notice.

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This Instruction Book may contain information for more than one model. Read and keep this book for future reference. This book contains important information on SAFETY, ASSEMBLY, OPERATION, AND MAINTENANCE. The owner must be certain that all the product information is included with the unit. This information includes the INSTRUCTION BOOKS, the REPLACEMENT PARTS and the WARRANTIES. This information must be included to make sure state laws and other laws are followed.

**Earthquake reserves the right to change, alter or improve the product and this document at any time without prior notice. Because of continual product development, your product may differ slightly from that illustrated in the manual.**

## SAFETY

### OWNER'S RESPONSIBILITY

Accurate assembly and safe and effective use of the log splitter is the owner's responsibility.

- Read and follow all safety instructions.
- Carefully follow all assembly instructions.
- Maintain the splitter according to directions and schedule included in this Earthquake operator's manual.
- Ensure that anyone who uses the splitter is familiar with all controls and safety precautions.

### SPECIAL MESSAGES

Your manual contains special messages to bring attention to potential safety concerns, machine damage as well as helpful operating and servicing information. Please read all the information carefully to avoid injury and machine damage.

**NOTE: General information is given throughout the manual that may help the operator in the operation or service of the machine.**

### IMPORTANT SAFETY PRECAUTIONS

Please read this section carefully. Operate the splitter according to the safety instructions and recommendations outlined here and inserted throughout the text. Anyone who uses this splitter must read the instructions and be familiar with the controls.



**This symbol points out important safety instructions which if not followed could endanger your personal safety. Read and follow all instructions in this manual before attempting to operate this equipment.**

- Do not allow children to operate this log splitter. Keep small children away from the area when the splitter is in use. Do not allow adults to operate the splitter without proper instruction.

### SAFETY INSTRUCTIONS:

- Before operating this log splitter, carefully read this manual and follow all instructions.
- Do not allow anyone to operate your log splitter who has not read this manual.
- Never operate your log splitter for any other purpose than splitting wood.
- Do not operate the log splitter under the influence of alcohol, drugs or medication.
- Never allow children to operate the log splitter. Keep small children away from the work area.
- If a second person is assisting in loading logs, never activate the log splitter until the helper is clear of the work area.

## DANGER

**DANGER INDICATES A SERIOUS INJURY OR FATALITY WILL RESULT IF THE SAFETY INSTRUCTIONS THAT FOLLOW THIS SIGNAL WORD ARE NOT OBEYED.**

## WARNING

**WARNING INDICATES A SERIOUS INJURY OR FATALITY COULD RESULT IF THE SAFETY INSTRUCTIONS THAT FOLLOW THIS SIGNAL WORD ARE NOT OBEYED.**

## CAUTION

**CAUTION INDICATES YOU CAN OR YOUR EQUIPMENT CAN BE HURT IF THE SAFETY INSTRUCTIONS THAT FOLLOW THIS SIGNAL WORD ARE NOT OBEYED.**

## IMPORTANT

**IMPORTANT INDICATES HELPFUL INFORMATION FOR PROPER ASSEMBLY, OPERATION, OR MAINTENANCE OF YOUR EQUIPMENT.**

## WARNING

**YOU MUST READ, UNDERSTAND AND COMPLY WITH ALL SAFETY AND OPERATING INSTRUCTIONS IN THIS MANUAL BEFORE ATTEMPTING TO SETUP AND OPERATE YOUR SPLITTER.**

**FAILURE TO COMPLY WITH ALL SAFETY AND OPERATING INSTRUCTIONS CAN RESULT IN LOSS OF MACHINE CONTROL, SERIOUS PERSONAL INJURY TO YOU AND/OR BYSTANDERS, AND RISK OF EQUIPMENT AND PROPERTY DAMAGE. THE TRIANGLE IN THE TEXT SIGNIFIES IMPORTANT CAUTIONS OR WARNINGS WHICH MUST BE FOLLOWED.**

### **CALIFORNIA PROPOSITION 65 WARNING**

**ENGINE EXHAUST FROM THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS, OR OTHER REPRODUCTIVE HARM.**

**PREPARATION:**

- Dress appropriately when operating the log splitter. Always wear safety footwear. Never wear sandals, sneakers, or open shoes, and never operate the log splitter with bare feet. Do not wear loose clothing or jewelry that might get caught in moving parts.
- Always wear safety glasses while operating your log splitter. Wear proper head gear to keep hair away from moving parts.
- Always wear a protective hearing device.
- If you wear gloves, be sure they are tight fitting without loose cuffs or draw strings.
- Both ends of each log should be cut as square as possible to help prevent the log from sliding out of the splitter during operation.
- Handle fuel with care; it is highly flammable.
  - a. Use an approved fuel container.
  - b. Never add fuel to a running engine or hot engine.
  - c. Fill fuel tank outdoors with extreme care. Never fill fuel tank indoors.
  - d. Replace gasoline cap securely and clean up spilled fuel before restarting.
- Never attempt to make any adjustments to the log splitter while the engine is running.

**OPERATION:**

- Never operate the log splitter without guards in place.
- Only operate the log splitter from the operator zone.
- Know how to stop the unit and disengage the controls.
- Never place hands and/or feet between log and splitting wedge or between log and ram during forward or reverse stroke.
- Do not step over or straddle the log splitter when the engine is running. Never reach or bend over the log splitter to pick up a log.
- Never try to split more than one log at the same time.
- Never allow one person to operate the valve while another is positioning the log.
- Never attempt to load your log splitter when the wedge is in motion.
- Only use your hand to operate the control lever. Never use your foot or a rope or any other extension device.
- Always keep fingers away from any cracks that open in the log during splitting operation.

- Never move the log splitter while the engine is running.
- Never leave your log splitter unattended with the engine running. Shut off the engine if you are leaving your splitter—even if for a short period of time.
- Do not run the engine in an enclosed area. Exhaust gases contain carbon monoxide. This odorless gas can be deadly when inhaled.
- Do not operate your log splitter on slippery, wet, muddy, or icy surfaces.
- Only operate your log splitter on level ground and not on a hillside.
- Never attempt to move the log splitter over hilly or uneven terrain without a tow vehicle or adequate help.
- Always block wheels to prevent movement of log splitter while in operation.
- Keep work area clear of tools, logs and any other debris.
- Always use your log splitter in daylight.

**REPAIR AND MAINTENANCE SAFETY:**

- Do not operate your log splitter in poor mechanical condition or when in need of repair.
- Periodically check that all nuts, bolts, and screws are tightened.
- Always perform recommended maintenance procedures before using your log splitter.
- Do not alter your log splitter in any manner such as attaching a rope or extension to the control lever or adding to the width or height of the wedge.
- Replace all damaged or worn parts immediately.
- Never tamper with the engine in order to operate at excessive speeds. The maximum engine speed is preset by the manufacturer.
- Do not service or repair your log splitter without removing the spark plug wire.
- All replacement parts must meet manufacturer's specifications.

**TOWING SAFETY:**

- Obey all federal, state and local regulations when towing on public roads and highways.
- Before towing, be certain that your log splitter is correctly and securely attached to the towing vehicle and that a safety chain is in place.
- Never carry any cargo or wood on your log splitter. Do not allow anyone to sit or ride on your log splitter.

- Before using your log splitter, disconnect it from the towing vehicle.
- When turning, parking, crossing an intersection, and driving in all situations allow for added length of your log splitter.
- Be careful when backing up.
- Adjust towing speed for terrain and conditions.
- Never operate your log splitter under the influence of alcohol, drugs or medication. A clear mind is essential for safety.
- Maximum speed of 45 mph is recommended when towing log splitter.

#### **FIRE PREVENTION:**

- Never operate your log splitter near a flame or spark. Hydraulic oil and gasoline are flammable and can explode.
- Do not fill the gas tank while the engine is hot or running. Allow the engine to cool before refueling.
- Never smoke while operating or refueling your log splitter. Gas fumes can easily explode.
- Only refuel your log splitter outdoors in a clear area. Always use an approved fuel container. Always replace the gas cap securely.
- If gas is spilled, move machine away from the area of the spill and avoid creating any source of ignition until the spilled gas has evaporated or been cleaned up.
- Keep a Class B fire extinguisher nearby when operating your log splitter in dry areas as a precautionary measure against possible flying sparks.
- Completely drain the fuel tank prior to storage. Do not siphon by mouth.
- Always store gasoline in an approved, tightly sealed container. Store the container in a cool, dry place. Do not store indoors or near a heating appliance.

#### **HYDRAULIC SAFETY:**

- The hydraulic system and mechanical parts of your log splitter require careful inspection. Be sure to replace any damaged hydraulic component.
- Fluid escaping from a very small hole can be very difficult to see. Do not check for leaks with your hand. Escaping fluid under pressure can have sufficient force to penetrate skin, causing serious personal injury or even death. Leaks can be located by passing a piece of cardboard or wood over the suspected leak. Look for discoloration.
- If injured by escaping fluid, see a doctor at once. Serious infection or reaction can develop if proper medical treatment is not administered immediately.
- Should it become necessary to loosen or remove any hydraulic fitting or line, be sure to relieve all pressure by shutting off the engine and moving the control handle back and forth several times.
- The pressure relief valve on your log splitter is preset at the factory. Do not adjust the valve. Only a qualified service technician should perform this adjustment.

**SAFETY DECALS**

**⚠ WARNING**

Read and understand operator's manual thoroughly before operation. Failure to do so may result in serious injury.

Keep all shields in place.

Keep hands, feet and clothing away from power-driven parts.

Always wear safety glasses and safety shoes during operation.

Always operate out-of-doors with good ventilation.

Always stop engine and remove spark plug wire before performing maintenance operations.

Always shut off engine when leaving log splitter unattended, even for a short period of time.

Only one person should load and operate the log splitter. Keep all others clear during operation. Never allow one person to operate valve while another is positioning the log.

Always position log with hands on the sides of log. Keep hands clear of ends.

Keep all children away from the log splitter.

Do not step over the log splitter.

Only use hands to operate the control valve.

Do not operate the log splitter while under the influence of alcohol, drugs or medication.

Always operate the log splitter on level, dry, non-slippery surfaces. Keep off slopes.

Keep work area clear of split wood, debris or other obstacles.

Always stay in the operator zone when using the log splitter.

Always split wood in the direction of the grain only.

Do not add gasoline while the engine is hot or running. Allow all spilled gas to evaporate before using log splitter.

LBLW2700WARN

Part Number: LBL2700WARN  
Description: General Warnings Decal  
Location: Back of Hydraulic Reservoir

| OPERATION   | ⚠ WARNING  | ⚠ CAUTION   |
|---|--|---|
| <ol style="list-style-type: none"><li>1. Read Owner/Operator manual for complete instructions.</li><li>2. Start engine using instructions from engine manual. Advance throttle control to maximum speed.</li><li>3. Grab log by sides and place onto beam, against base plate.</li><li>4. If necessary, stabilize log by holding the side, never the end.</li><li>5. Move control handle to FORWARD position to extend cylinder.</li><li>6. Release handle to STOP the cylinder.</li><li>7. Move control handle to REVERSE position to retract cylinder.</li></ol> <div>Control Valve<br/>Forward &lt; Neutral &gt; Reverse</div> | <div><div></div><div>Keep hands and all body parts away from splitting wedge, base plate, partially split wood, and moving parts.</div></div> <div><div></div><div>Hold logs by the sides, not the ends.</div></div> <div><div></div><div>Only one person is permitted to stabilize logs and operate the controls.</div></div> <div><div></div><div>Do not check for oil leaks with your hand. Use a cloth. High pressure hydraulic fluid can penetrate your skin, causing blood poisoning.</div></div> <div><div></div><div>Never operate log splitter under the influence of alcohol or drugs.</div></div> | <div><div></div><div>Read Owner/Operator manual completely.</div></div> <div><div></div><div>Keep bystanders, children, and helpers at least 25 ft. away.</div></div> <div><div></div><div>Wear safety glasses, protective hearing device, tight fitting work gloves, and safety shoes.</div></div> <div><div></div><div>Operate log splitter on flat, dry ground.</div></div> <div><div></div><div>NO ONE under age 18 is allowed to operate log splitter.</div></div> |

LBLW2700CYL

Part Number: LBLW2700CYL  
Description: General Decal  
Location: Hydraulic Cylinder

**⚠ WARNING**

**PINCH POINT - KEEP AWAY**

To avoid serious injury, keep hands clear of moving cylinder.

Speeds may change with loads or valve functions.

LBL4184

Part Number: LBL4184  
Description: Pinch Point Warning Decal  
Location: Wedge stripper bar



## ⚠ CAUTION

**Use extreme care when tilting the beam. Due to the heavy weight of the beam, some assistance may be needed to insure safety and prevent injury.**

LBLW2700LIFT

Part Number: LBLW2700LIFT  
Description: Tilting Beam Decal  
Location: Beam

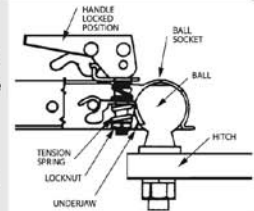
## ⚠ WARNING

Failure to follow these rules can cause trailer to detach while towing and may result in serious injury or death.  
Do not exceed weight capacity of ball or load limits stamped on coupler.  
Always use safety chains when towing.  
Always check that the coupler handle is locked before towing.  
Always use the correct ball size that is stamped on coupler.  
Always adjust coupler locking pressure on ball before use.  
Check coupler tightness before towing and after towing 50 miles.  
Always check coupler and ball for damage before towing. Replace if damaged.  
Avoid sharp turns and steep vertical angles when towing to prevent damage to coupler or its components.

LBLW2700TOW

## OPERATING INSTRUCTIONS

1. Before using, adjust coupler locking pressure on ball. Put handle in locked position with ball in coupler. Tighten locknut against tension spring so that coupler is firmly on ball. The proper adjustment allows handle to be released with moderate pressure.
2. Pull up on coupler handle to open and place coupler over ball. When ball is seated in ball socket pull back on handle to locked position.
3. Check to make sure the coupler is tight on the ball after towing for 50 miles. Always check for tightness before towing and make sure handle is in locked position.



Part Number: LBLW2700TOW  
Description: Tower Warning and Coupler Operating Instructions Decal  
Location: Tongue Near Trailer Hitch Coupler



## ⚠ WARNING

**Cutting hazard at wood splitter wedge - stay clear.**

**Keep hands and limbs away from moving parts and log ends.**

**Serious injury or death could result if safety precautions are not followed.**

LBLW2700CUT

Part Number: LBL2700CUT  
Description: Wedge Cutting Hazard Decal  
Location: Beam



## ⚠ WARNING

### PINCH POINT

**Fingers or toes may be broken.  
Keep hands and feet away.**

LBLW2700PP

Part Number: LBLW2700VPP  
Description: Pinch Point Hazard Decal  
Location: Tongue near beam



## SET-UP INSTRUCTIONS

1. Remove wheel assembly, parts bags and manuals from the box and set aside.
2. Lift tank assembly out of the box and set aside.  
**Note: Tank assembly is heavy and may require two people to lift it out safely.**
3. Carefully lift engine and pump assembly out of the box and set aside.  
**Note: Lift heavy objects with your legs, not your back, to avoid injury.**
4. Attach engine/pump assembly to the engine mount on the tank using the four bolts, four nuts, and eight washers found in parts bag labeled #3. Tighten securely with 13mm wrenches. **SEE FIGURE 1.**
5. Install the wheel/spindle assembly into the wheel mounts on the tank using the two 55mm (approx. 2-1/4 inch) M8 bolts and corresponding nuts found in the main parts bag. Tighten securely with 13mm wrenches. **SEE FIGURE 2.**
6. Lift the beam/wedge assembly out of the box, removing and setting aside all loose hydraulic hoses.  
**To avoid injury, be aware that the wedge is not tightened to the beam and may shift on the beam when it is lifted.**  
**Note: Beam/wedge assembly is heavy and may require two people to lift it out safely.**
7. Remove foam packaging from between the splitting wedge and the beam. Tighten the eight bolts and nuts that hold the wedge onto the beam with a 10mm Allen wrench and 19mm box wrench (**SEE FIGURE 3**), ensuring the wedge is still able to move along the beam without catching.

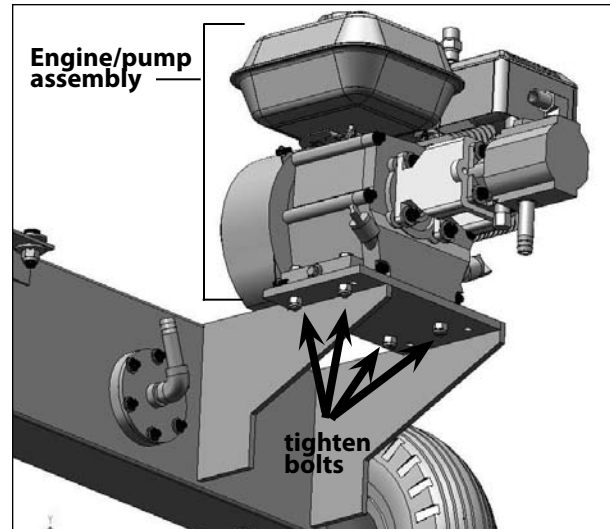


Figure 1

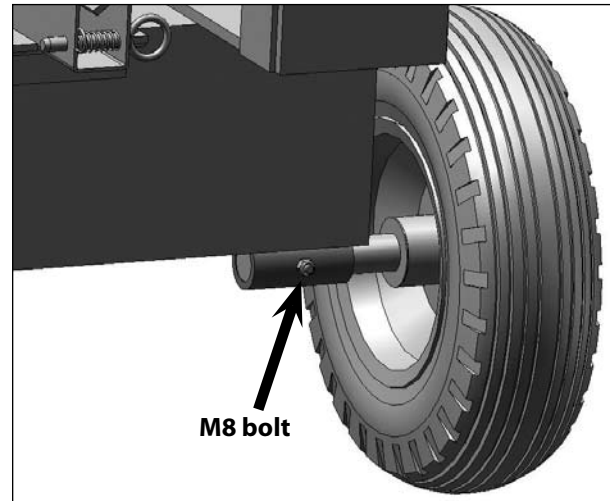


Figure 2

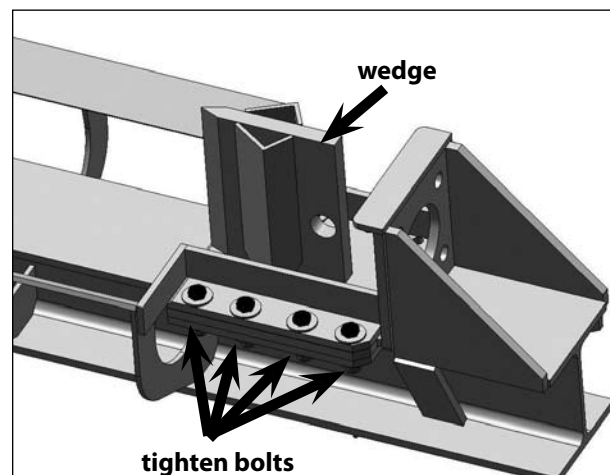
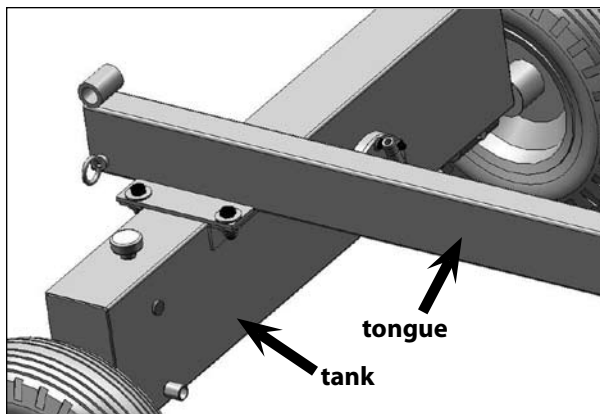
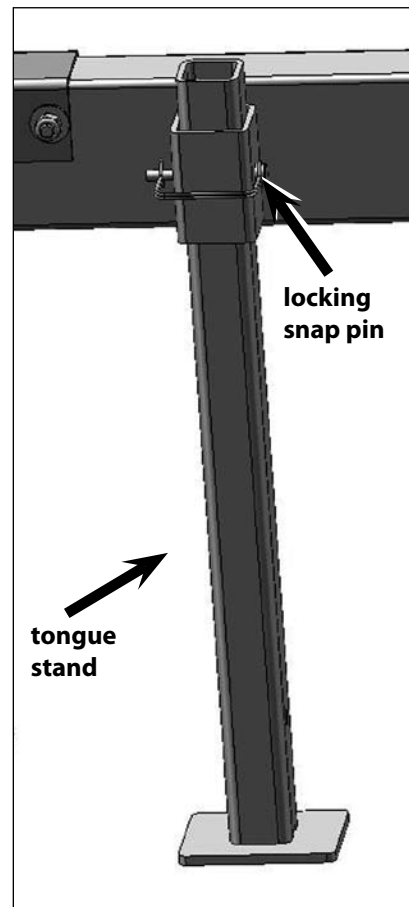
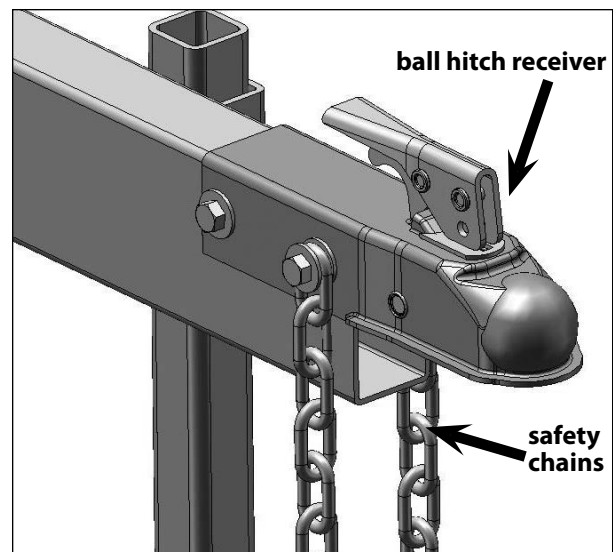


Figure 3

8. Lift the tongue out of the box and attach to the tongue mounting brackets on the tank using the four bolts, four nuts, and eight washers found in parts bag labeled #1. Tighten securely with 19mm wrenches. **SEE FIGURE 4.**
9. Install the tongue stand onto the tongue and lock into place in the standing position (not the towing position) using the locking snap pin. **SEE FIGURE 5.**
10. Install the ball hitch receiver onto the end of the tongue using two 3-inch long bolts, washers, and nuts. Make sure the safety chains are attached to the forward-most bolt. Tighten securely with 19mm wrenches. **SEE FIGURE 6.**

*Figure 4**Figure 5**Figure 6*

11. Slide the splitting wedge on the beam all the way to the end of the beam against the splitting foot. Stand the beam vertically on its splitting foot so the splitting wedge is pointing downward. Back the trailer assembly into the beam so that the pivot pin holes on the beam and trailer assembly are aligned with one another. **SEE FIGURE 7.** The spring loaded lock pin that is on the tongue, underneath the pivot pin hole, will need to be pulled back to allow the pivot pin holes to line up. **SEE FIGURE 8.** Insert the large clevis pin through the aligned pivot pin holes on both the tongue and beam, and secure in place with the corresponding hair pin. **SEE FIGURE 8.**

12. With the beam still in the vertical position, place the cylinder/valve assembly onto the beam's cylinder mount plate and attach using the four nuts, four lock washers, and four flat washers that are found in parts bag labeled #2. **SEE FIGURE 9.** Tighten with a 25mm deep-pocket socket wrench, (a socket extension will be needed to reach the nuts).

**Note: Before mounting the cylinder/valve assembly to the beam, make sure the trailer and beam assemblies are on a flat and level surface, and the beam is securely locked to the trailer assembly via the pivot pin and vertical lock pin.**

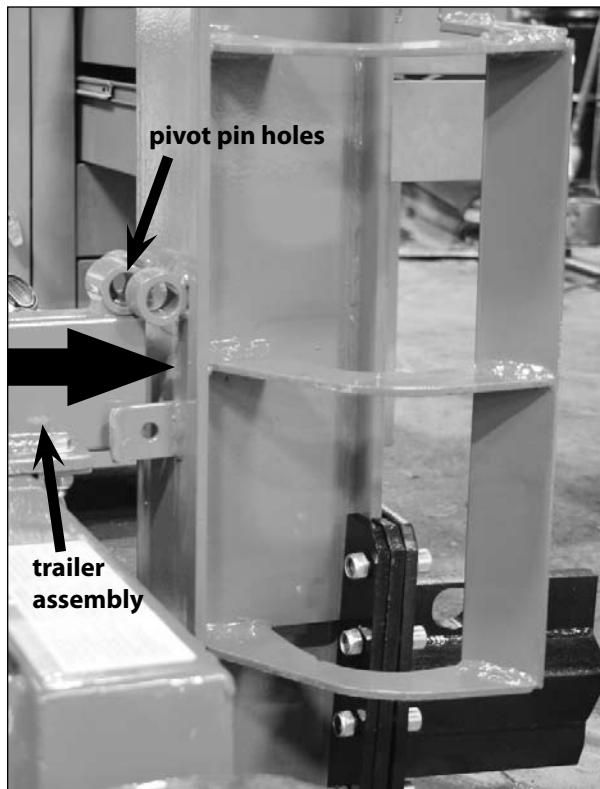


Figure 7

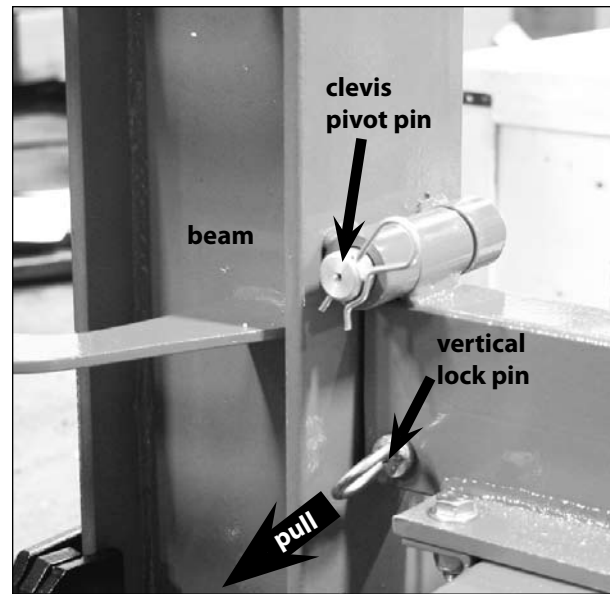


Figure 8

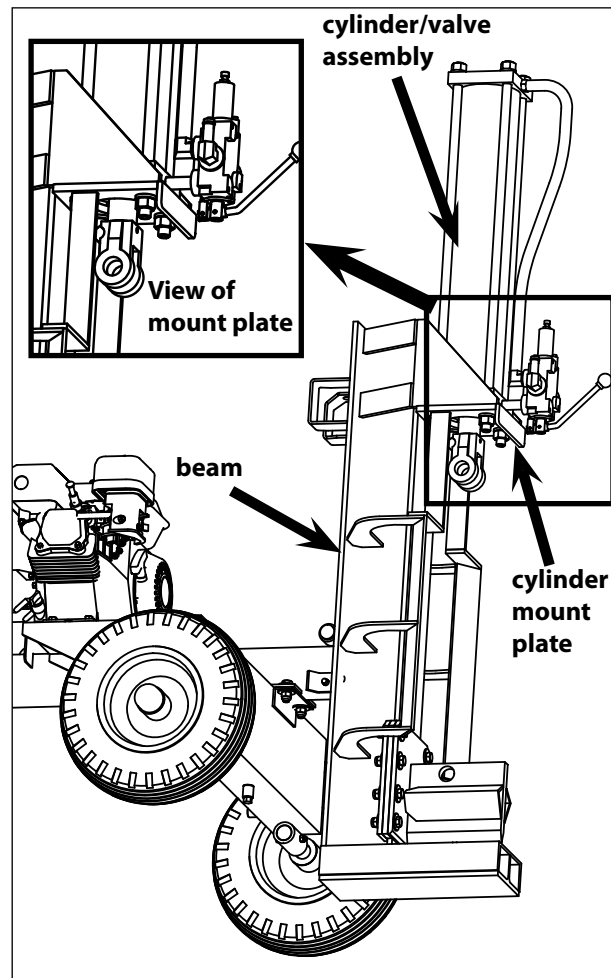


Figure 9

13. Lower the beam and cylinder assembly into the horizontal position making sure the spring loaded lock pin on the tongue engages the beam, securing it to the tongue. **SEE FIGURE 10.**
14. Straighten the knuckle on the ram and slide the splitting wedge back toward the cylinder so it couples with the ram knuckle. Connect the wedge to the ram knuckle using the wedge pin and two corresponding cotter pins. **SEE FIGURE 11.** Bend the ends of each cotter pin to keep them from falling out.
15. Attach the valve control handle by removing the upper pin from the valve. Position the groove on the bottom of the control handle over the lower pin on the valve. Then reinsert the upper pin through the holes in the valve and control handle. Secure the valve handle pins in place using the corresponding cotter pin. **SEE FIGURE 12.** Bend the end of the cotter pin to keep it from falling out.
16. Remove any hydraulic port caps or plugs that are used to close open hydraulic ports during transport.

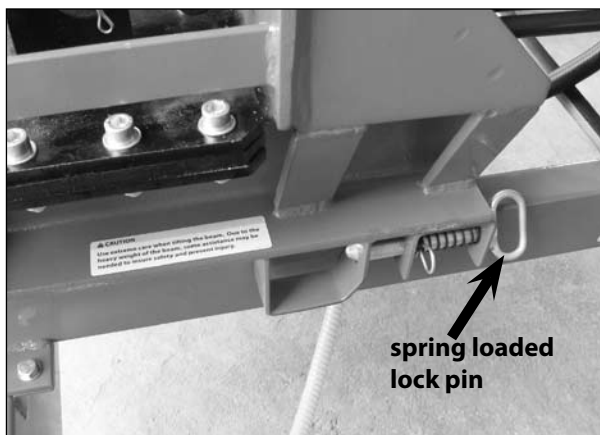


Figure 10

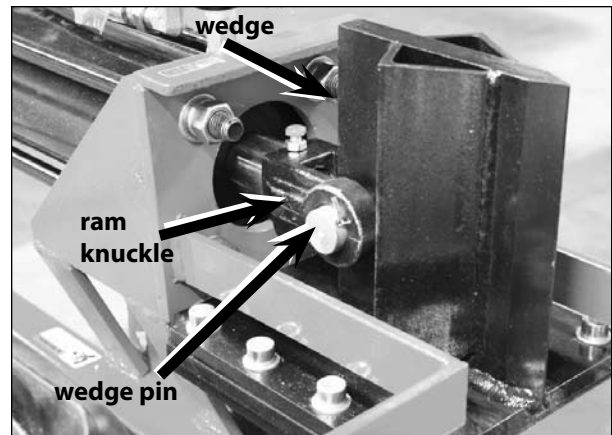


Figure 11

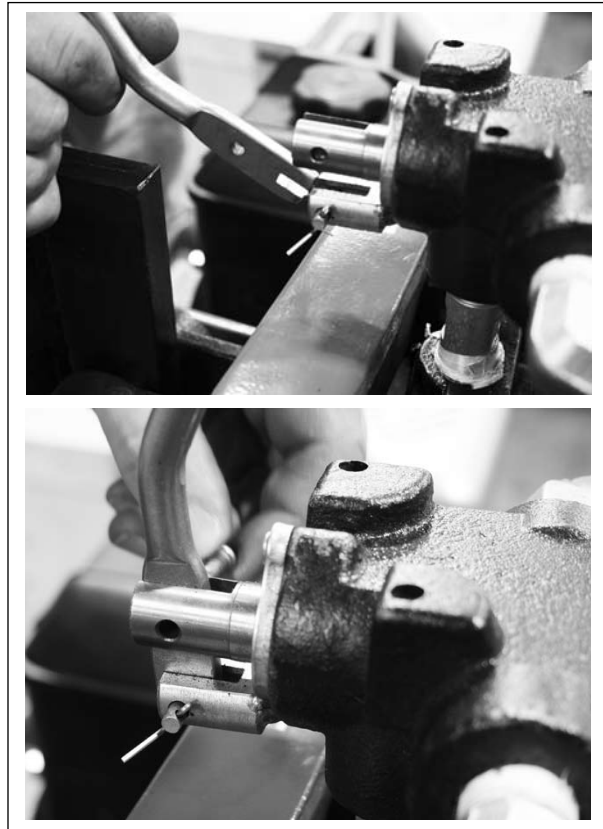


Figure 12



17. Attach the clear suction hose to the suction port on the tank and to the intake port on the pump. Tighten securely using two hose clamps.

**SEE FIGURE 13.**

18. Attach the black flexible return hose to the return port on the tank and to the return port on the valve. Tighten securely using two hose clamps.

**SEE FIGURE 15.**

19. Attach the high pressure hose to the high pressure port on the valve and to the outlet port on the pump. **SEE FIGURE 13 and 14.** *Tip: Jiggle the fitting while tightening to ensure proper seating of the fitting.*

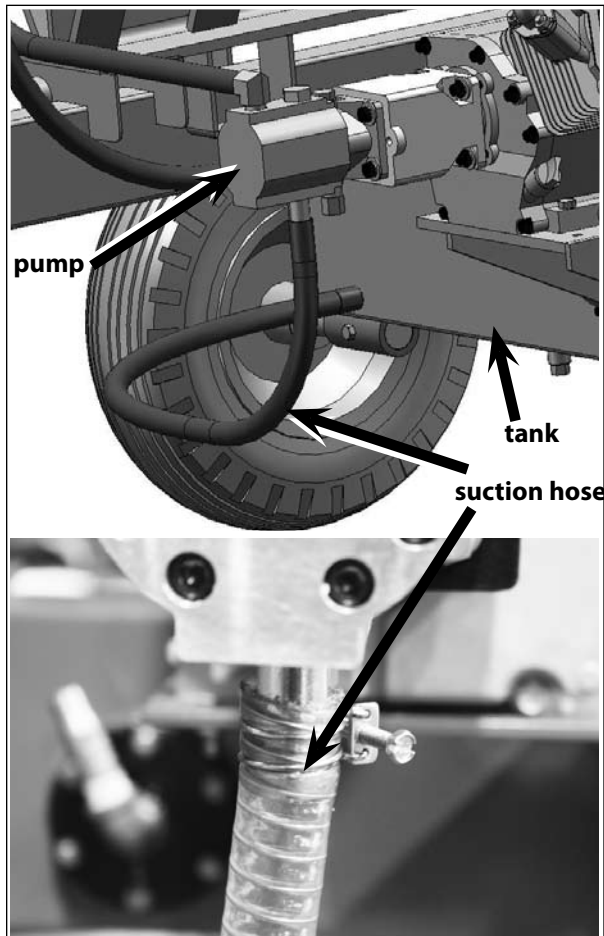


Figure 13

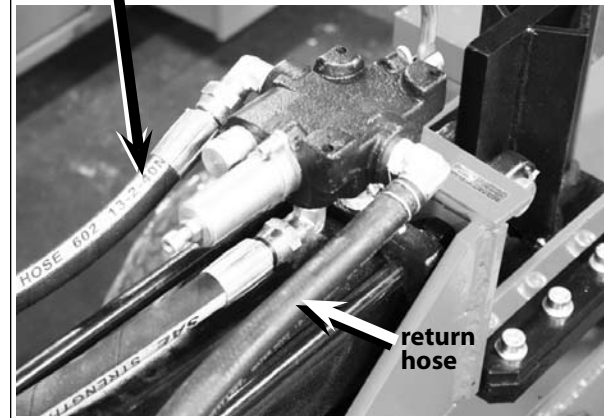
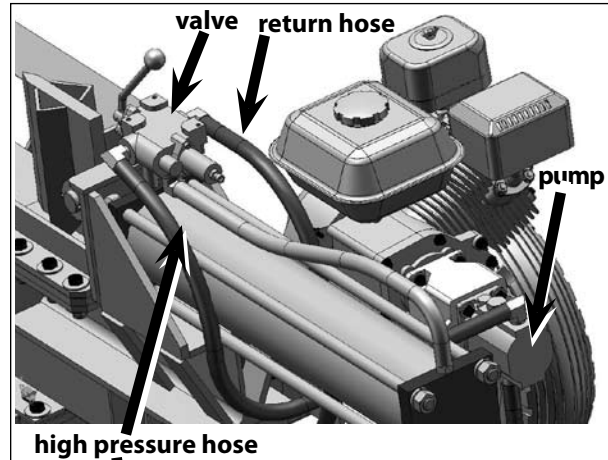


Figure 14

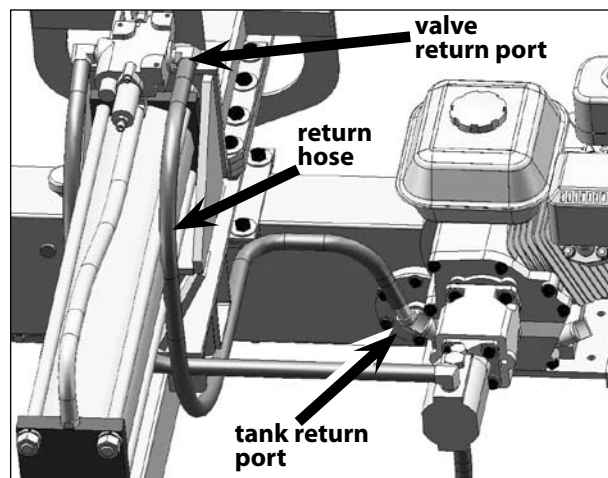


Figure 15

## STARTING:

**IMPORTANT:** The engine and hydraulic reservoir are shipped without oil. See the Engine Operator's Manual packed with your log splitter for the type of crankcase oil, fuel, etc. The engine manufacturer recommends lead-free gasoline only.

The hydraulic reservoir should be filled with an SAE 30 hydraulic oil (if temperature will be above 50° Fahrenheit when operating unit) and SAE 20 hydraulic oil (if temperature will be between 32° Fahrenheit and 50° Fahrenheit). If hydraulic oil is difficult to obtain, automatic transmission fluid can be substituted and should be used instead of hydraulic oil when temperatures are below 32° Fahrenheit. **DO NOT mix transmission fluid with hydraulic oil.** Use only clean oil and take care to prevent dirt from entering the hydraulic reservoir.

### HYDRAULIC FILLING INSTRUCTIONS:

1. With the log splitter on level ground, remove filler cap. **SEE FIGURE 16.**
2. Using a funnel in the fill spout, fill the tank with hydraulic oil until fluid is visible through the fluid level viewing window. **SEE FIGURE 16.**
3. Start Engine (see instructions in manual).
4. Move control lever forward to extend the hydraulic cylinder all the way. (It is normal for the cylinder to not move smoothly as it purges the air from the system.) **SEE FIGURE 17 AND/OR 18.**
5. Move control lever to the return position until ram is retracted fully. **SEE FIGURE 17 AND/OR 18.**
6. Turn off engine.
7. With cylinder in the return position, open the filler cap very slowly to allow any air to escape that may have been trapped in the reservoir during the initial filling procedure.
8. Top off the reservoir by adding hydraulic fluid until visible through the fluid level viewing window.

## ⚠ WARNING

FLUID ESCAPING FROM A VERY SMALL HOLE CAN BE VERY DIFFICULT TO SEE. DO NOT CHECK FOR LEAKS WITH YOUR HAND. ESCAPING FLUID UNDER PRESSURE CAN HAVE SUFFICIENT FORCE TO PENETRATE SKIN, CAUSING SERIOUS PERSONAL INJURY OR EVEN DEATH. LEAKS CAN BE LOCATED BY PASSING A PIECE OF CARDBOARD OR WOOD OVER THE SUSPECTED LEAK. LOOK FOR DISCOLORATION.

## ⚠ CAUTION

DO NOT START OR RUN THE ENGINE WITHOUT HYDRAULIC OIL IN THE HYDRAULIC RESERVOIR AND MOTOR OIL IN THE ENGINE.

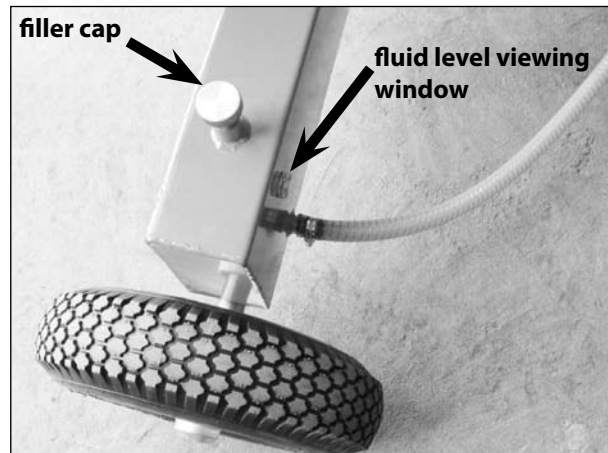


Figure 16

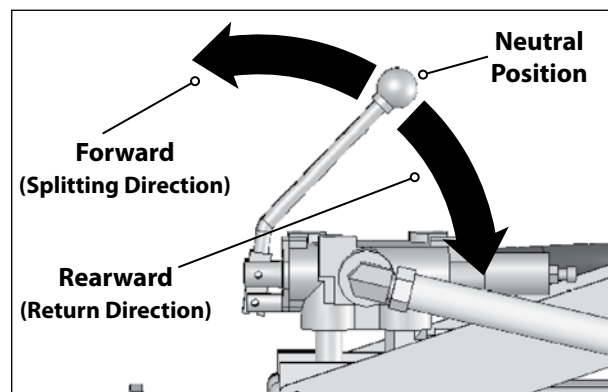


Figure 17



Your log splitter is now properly filled and ready for use. You have the correct amount of fluid in the reservoir when you can see the fluid through the fluid level viewing window.

Once the log splitter is filled with fluid, tighten the filler cap by turning it all the way clockwise.

**TIP:** *If your ram still does not travel smoothly, there may still be air in the hydraulic system or your fluid level is too low. If this is the case, with the engine turned off, loosen the filler cap and move the hydraulic control valve from the forward to return position a few times to purge any air that may be trapped in the hydraulic system.*

**NOTE:** *Doing this procedure with the filler cap removed will cause any air that is in the system to expel through the filler spout. Check for proper fluid level.*

### SYSTEM CHECK:

With the correct amount of hydraulic fluid in the system, operate the cylinder ram all the way into the forward direction and all the way in the return direction. **SEE FIGURE 17 AND/OR 18.** Check that the ram moves smoothly without jerking. Check that there is no leaking of fluids at component ports, fittings, or hoses. If leaking is found, tighten fittings or clamps until leaking goes away. If leaking doesn't go away, contact Ardisam Customer Service (800-345-6007 M-F 8:00-5:00 PM CST, or e-mail [info@ardisam.com](mailto:info@ardisam.com)).

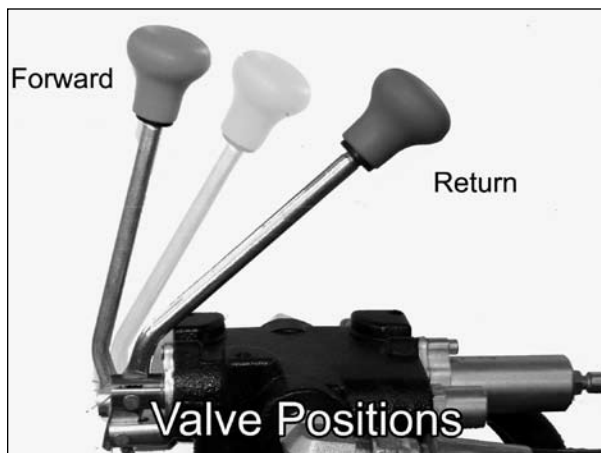


Figure 18

### ENGINE OIL RECOMMENDATIONS:

1. Refer to Engine Operator's Manual for further information.

### STARTING INSTRUCTIONS:

1. Move the throttle lever to "FAST". Always operate the engine with throttle lever in the "FAST" position.
2. Move choke control lever to "CHOKE" position.
3. Grasp rope handle and pull slowly until resistance is felt. Then pull rapidly to start engine and avoid engine kickback.
4. Allow the engine to warm up. If operating in warm weather, move the choke control lever toward "RUN" in small increments over several seconds. For cold weather operation do this procedure over several minutes. Operate with choke lever in the "RUN" position.
5. To stop engine, move the throttle lever to the "STOP" position.

**NOTE:** *The maximum governed speed on the engine is preset at the factory to 3600 RPM no load speed. When splitting wood, the throttle should be set at the maximum setting to develop the horsepower required for the pump.*

### TOWING:

1. The log splitter is equipped with a safety chain and a coupler that requires a 2-inch diameter ball. Before towing, the safety chain must be secured to the hitch or bumper of the vehicle and the tongue stand lifted and locked into the road transport position. Local regulations should be checked regarding licensing, lights, towing, etc. See also Towing Safety in the Safety information section of this manual.

## OPERATION:

1. Set up the log splitter on a clear, level area and block the wheels. Make sure that the suction port on the reservoir is always on the lower side of the log splitter.

**NOTE: The log splitter can be used to split logs with the beam in both the horizontal and vertical positions. In either position, make sure the beam is locked into position with its respective spring-loaded lock pin.**

2. Place a log on the beam against the foot plate. Make sure that the log is placed securely on the foot plate and flat against the beam.
3. Depress the control valve handle forward toward the log so that the cylinder will drive the wedge into the log. Extend the cylinder until the log splits or the wedge travels to the end of its stroke. If the log has not completely split after the cylinder has reached the end of its extension, retract the cylinder. Retract the cylinder by pulling back on the control valve handle.

**SEE FIGURE 17 AND/OR 18**

**NOTE: For operation in wooded areas, obtain a spark arrestor for the exhaust system from the manufacturer of your engine. See also Fire Prevention in the Safety information section of this manual.**

## MAINTENANCE:

1. Consult the operating and maintenance instructions of the Engine Operator's Manual for engine care and maintenance.
2. Always check the oil level of the hydraulic reservoir before operation. Oil must be no more than two inches from top of tank when the wedge is in the returned position. Operating the log splitter without an adequate oil supply will cause severe damage to the hydraulic pump.
3. If the wedge becomes dull or nicked, it can be removed and sharpened. While the log splitter is in the horizontal position, remove the hair pins and pin that connects the wedge to the hydraulic cylinder. Then remove the eight bolts and nuts that secure the wedge to the splitting platform. The wedge can now be removed and sharpened.
4. All replacement parts must meet manufacturer's specifications.
5. Check air pressure of tires before each use. Maintain pressure to 60 psi or to the recommended maximum pressure printed on the tire.
6. Grease wheel bearings annually.

## ⚠ WARNING

**ALWAYS WEAR SAFETY GLASSES DURING OPERATION.**

**KEEP HANDS AND FEET CLEAR OF RAM, STRIPPER BAR AND FOOT PLATE AT ALL TIMES.**

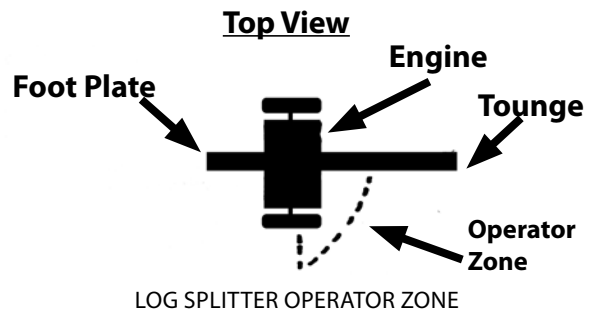
**DO NOT OPERATE LOG SPLITTER IF THE OIL LEVEL IS MORE THAN TWO INCHES FROM TOP OF TANK WHEN THE WEDGE IS IN THE RETURNED POSITION.**

## ⚠ IMPORTANT

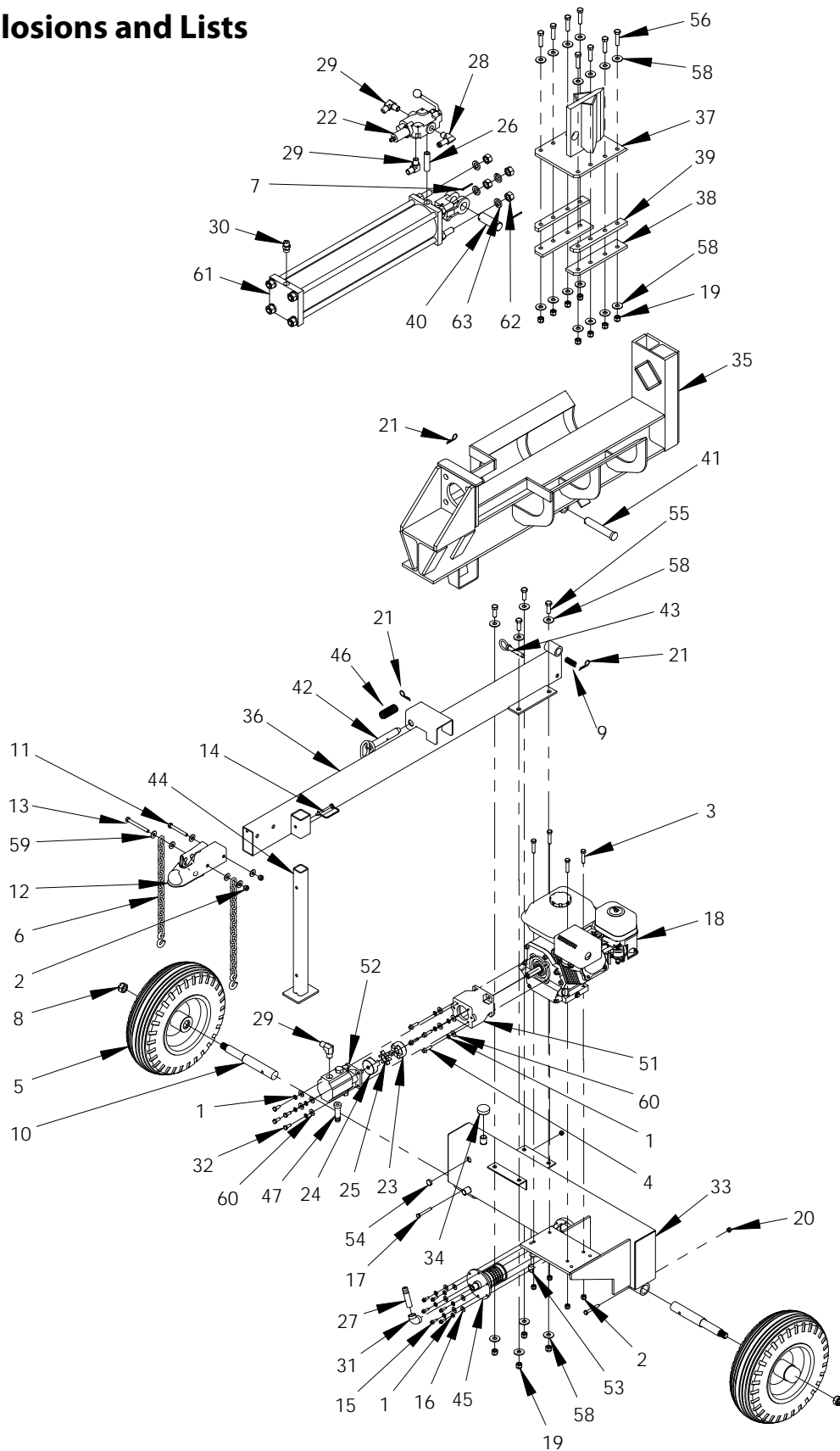
**LEAVING THE VALVE IN THE "ACTUATE" POSITION AT THE END OF THE STROKE MAY DAMAGE THE PUMP. ALWAYS USE EXTRA CARE WHEN SPLITTING LOGS WITH ENDS NOT SQUARE.**

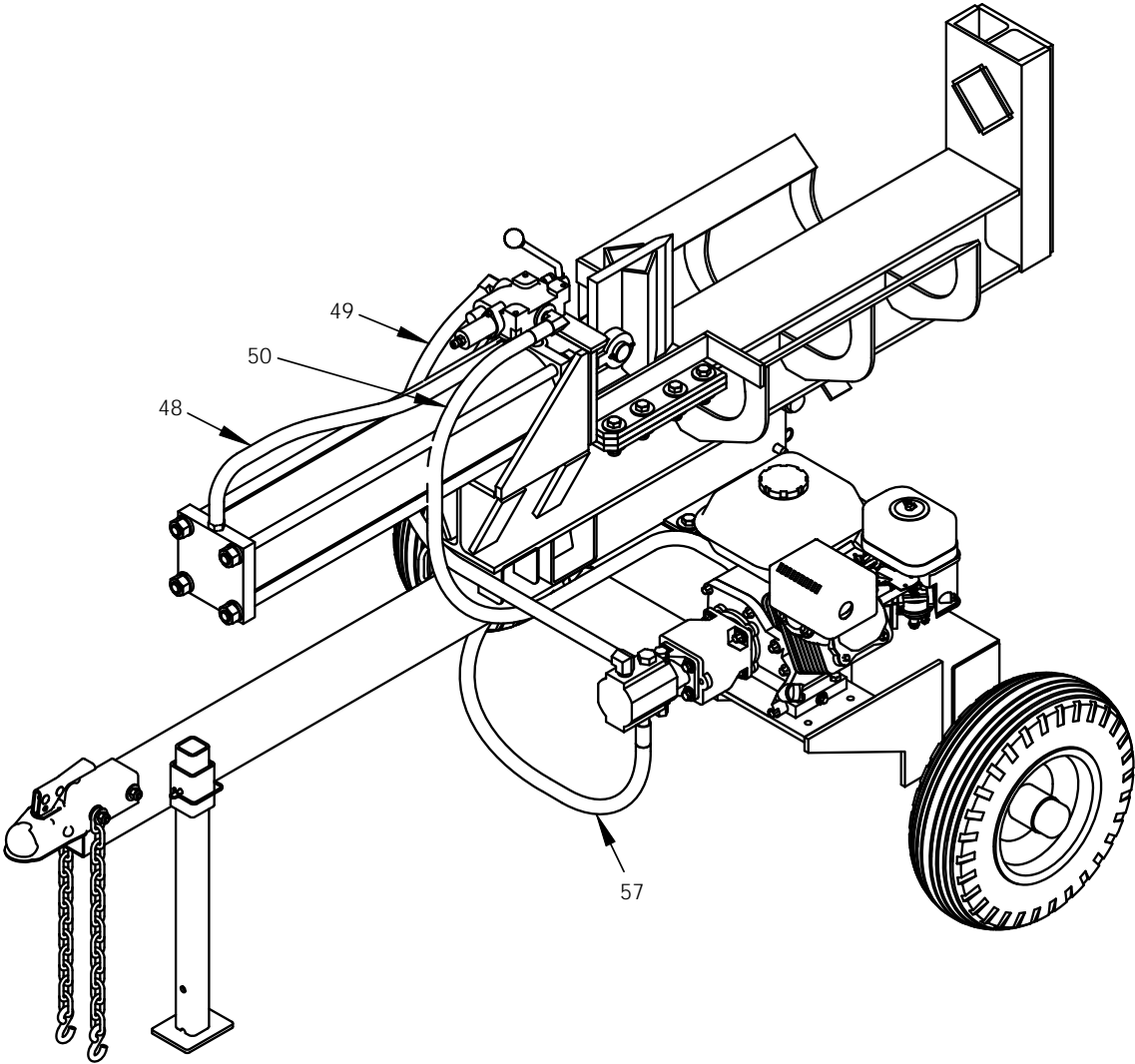
## ⚠ IMPORTANT

**TO EXTEND THE LIFE OF THE HYDRAULIC CYLINDER, AVOID "BOTTOMING OUT" WEDGE PLATE TO THE FOOT PIECE. TO CONFORM WITH INDUSTRY SAFETY RECOMMENDATIONS, THE WEDGE STOPS TWO INCHES FROM THE END OF THE STROKE.**



## Parts Explosions and Lists





| REF. NO. | PART #     | DESCRIPTION                                    | QTY. |
|----------|------------|--|------|
| 1        | 504        | LOCKWASHER-SPRING 5/16"                        | 14   |
| 2        | 1662       | NUT 3/8-16 NYLOC                               | 6    |
| 3        | 2001       | BOLT 3/8-16 X 1-3/4 HH GR5 ZN                  | 4    |
| 4        | 3244       | BOLT M8 X 1.25 X 30 HHFCS GR8.8 ZN             | 4    |
| 5        | 4099       | WHEEL - HIGH SPEED                             | 2    |
| 6        | 4146       | CHAIN ASSEMBLED LOG SPLITTER                   | 2    |
| 7        | 4155       | PIN COTTER 5/32 X 1 1/2 SUPPLIED W-4099        | 2    |
| 8        | 4157       | NUT- CASTLE 3/4" RETAINER FOR HIGH SPEED       | 2    |
| 9        | 4333       | SPRING 1 3/4" FOR LS SPRING PIN                | 1    |
| 10       | 4339       | SPINDLE DRILLED FOR LOG SPLITTER               | 2    |
| 11       | 4359       | BOLT 3/8-16 X 3 HHCS                           | 1    |
| 12       | 4386       | COUPLER 2" BALL LATCH FOR 2" CHANNEL           | 1    |
| 13       | 4411       | BOLT 3/8-16 X 3 3/4 HHCS                       | 1    |
| 14       | 4501       | SNAP PIN- SAFETY 1/4" X 2-1/4"                 | 1    |
| 15       | 6311       | BOLT M6 X 20 HHFCS (8HD) GR8.8 ZN              | 6    |
| 16       | 48261      | WASHER 1/4" FLAT ZINC                          | 6    |
| 17       | 48300      | BOLT 5/16-18 X 2-1/4 HHCS GR5 ZN               | 2    |
| 18       | 60365      | ENGINE - 6.5 HP VIPER HORZ                     | 1    |
| 19       | 331052     | LOCKNUT M12                                    | 12   |
| 20       | 60G5NY     | NUT 5/16-18 NYLOC                              | 2    |
| 21       | HAIR5      | PIN OVAL HAIR PIN 5/16" Z                      | 3    |
| 22       | W1265V0700 | VALVE, FORWARD CONTROL CE                      | 1    |
| 23       | W1265V0802 | COUPLING, LOVE JOY 19MM BORE WITH SET SCREW    | 1    |
| 24       | W1265V0803 | COUPLING, LOVE JOY 10MM BORE WITH SET SCREW    | 1    |
| 25       | W1265V0804 | SPIDER, LOVE JOY L SERIES                      | 1    |
| 26       | W1265V0810 | PIPE, NIPPLE 1/2 NPT VALVE SPACER LOG SPLITTER | 1    |
| 27       | W1265V0811 | FITTING 1/2" NPT TO HOSE                       | 1    |
| 28       | W1265V0812 | FITTING, ELBOW 1/2" TO HOSE                    | 1    |
| 29       | W1265V0813 | FITTING, ELBOW 1/2" NPT TO 1/2" JIC            | 3    |
| 30       | W1265V0814 | COUPLING 1/2" MALE TO MALE                     | 1    |
| 31       | W1265V0816 | ELBOW 1/2" NPT                                 | 1    |
| 32       | W1265V0904 | BOLT M12 X 1.75 X 35 HHCS                      | 4    |
| 33       | W27000100  | WELDMENT, TANK 27 TON LOG SPLITTER             | 1    |

| REF. NO. | PART #     | DESCRIPTION                                  | QTY. |
|----------|------------|--|------|
| 34       | W27000110  | CAP, OIL FILL 27 TON LOG SPLITTER            | 1    |
| 35       | W27000200  | WELDMENT, BEAM 27 TON LOG SPLITTER           | 1    |
| 36       | W27000300  | WELDMENT, TONGUE 27 TON LOG SPLITTER         | 1    |
| 37       | W27000306  | WELDMENT, WEDGE 27 TON LOG SPLITTER          | 1    |
| 38       | w27000307  | PLATE, HOLD DOWN, WEDGE 27 TON LS            | 2    |
| 39       | W27000308  | PLATE, SPACER, WEDGE 27 TON LOG SPLITTER     | 2    |
| 40       | W27000309  | PIN, HYDRAULIC CYLINDER MOUNT                | 1    |
| 41       | W27000310  | PIN CLEVIS BEAM MOUNT 27 TON LOG SPLITTER    | 1    |
| 42       | W27000313  | WELDMENT, PULL PIN 27 TON LOG SPLITTER       | 1    |
| 43       | W27000314  | WELDMENT, PIN, PULL 27 TON LOG SPLITTER      | 1    |
| 44       | W27000400  | WELDMENT, KICK STAND 27 TON LOG SPLITTER     | 1    |
| 45       | W27000500  | WELDMENT, FILTER 27 TON SPLITTER             | 1    |
| 46       | W27000602  | SPRING HOLD DOWN 27 TON LOG SPLITTER         | 1    |
| 47       | W27000610  | FITTING 1/2" NPT TO HOSE                     | 1    |
| 48       | W27000613  | HOSE CYLINDER 27 TON LOG SPLITTER            | 1    |
| 49       | W27000614  | HOSE PRESSURE 27 TON LOG SPLITTER            | 1    |
| 50       | W27000615  | HOSE RETURN 27 TON LOG SPLITTER              | 1    |
| 51       | W27000617  | SPACER, HYDRAULIC PUMP                       | 1    |
| 52       | W27001029  | PUMP 27 TON LOG SPLITTER                     | 1    |
| 53       | W27001030  | PLUG DRAIN                                   | 1    |
| 54       | W27001031  | GAGE SITE 27 TON LOG SPLITTER                | 1    |
| 55       | W27001032  | BOLT M12 X 1.75 X 35 HHCS                    | 4    |
| 56       | W27001033  | BOLT M12 X 1.75 X 35 HHCS                    | 8    |
| 57       | W27001034  | HOSE SUCTION 27 TON LOG SPLITTER             | 1    |
| 58       | WF12       | WASHER FLAT 1/2" STANDARD ZINC               | 24   |
| 59       | WF38       | WASHER FLAT 3/8 STANDARD ZINC                | 6    |
| 60       | WF516      | WASHER FLAT 5/16" STANDARD ZN                | 8    |
| 61       | WL27000700 | CYLINDER, HYDRAULIC, TIE ROD 27 TON SPLITTER | 1    |
| 62       | WL27000708 | NUT M18 X 1.5 HH GR8.8 ZN                    | 4    |
| 63       | WL34       | WASHER 3/4" SPRING LOCK ZINC                 | 4    |



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