

DR® 5-TON WOOD SPLITTER

SAFETY & OPERATING INSTRUCTIONS



Serial No. _____

Order No. _____

Original Language

DR Power Equipment
Toll-free phone: 1-800-DR-OWNER (376-9637)
Fax: 1-802-877-1213
Website: www.DRpower.com

⚠ WARNING

Read and understand this manual and all instructions before operating the DR 5-TON WOOD SPLITTER.

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Conventions used in this manual

WARNING

This indicates a hazardous situation, which, if not avoided, could result in death or serious injury.

CAUTION

This indicates a hazardous situation, which, if not avoided, could result in minor or moderate injury.

NOTICE

This information is important in the proper use of your machine. Failure to follow this instruction could result in damage to your machine or property.

Serial Number and Order Number

A Serial Number is used to identify your machine and is located on the Serial Number Label on your machine. An Order Number is used to check and maintain your order history and is located on your packing slip. For your convenience and ready reference, enter the Serial Number and Order Number in the space provided on the front cover of this manual.

Additional Information and Potential Changes

DR Power Equipment reserves the right to discontinue, change, and improve its products at any time without notice or obligation to the purchaser. The descriptions and specifications contained in this manual were in effect at printing. Equipment described within this manual may be optional. Some illustrations may not be applicable to your machine.

Chapter 1: General Safety Rules

WARNING

Read this safety & operating Instructions manual before you use the DR 5-TON WOOD SPLITTER. Become familiar with the operation and service recommendations to ensure the best performance from your machine. If you have any questions or need assistance, please contact us at www.DRpower.com or call toll-free 1-800-DR-OWNER (376-9637) and one of our Technical Support Representatives will be happy to help you.

Labels

Your DR 5-TON WOOD SPLITTER carries prominent labels as reminders for its proper and safe use. Shown below are copies of all the Safety and Information labels that appear on the equipment. Take a moment to study them and make a note of their location on your Wood Splitter as you set up and before you operate the unit. Replace damaged or missing safety and information labels immediately.

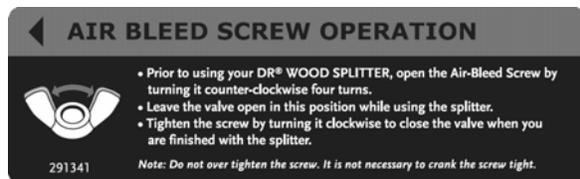


WARNING!

AVOID SERIOUS INJURY OR DEATH

-  Read the Safety and Operating Instructions Manual before using.
-  Always unplug splitter and read service manual before servicing.
-  Always operate from operator zone, and away from pets and children.
-  Use proper protective gear for hands, feet and face.
-  Never operate near natural gas or flammable liquids.
-  Never place your hand near the ram or wedge during operation.
-  Never operate splitter on wet, uneven, unstable, or sloping surfaces.

291381



AIR BLEED SCREW OPERATION

-  Prior to using your DR® WOOD SPLITTER, open the Air-Bleed Screw by turning it counter-clockwise four turns.
- Leave the valve open in this position while using the splitter.
- Tighten the screw by turning it clockwise to close the valve when you are finished with the splitter.

Note: Do not over tighten the screw. It is not necessary to crank the screw tight.

291341



DR® WOOD SPLITTER MODEL# WDS XXS XN

120V-	60Hz	1500W	IP54
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Log Capacity: 20 Inches
Splitting Force: 5 Tons
Weight: 105lbs.
Manufacture Date: 09/20/

291361 

291361



WARNING!

OPERATING INSTRUCTIONS

- Read Operator's Manual for complete instructions before operating.
- Work Safely: wear eye protection, gloves and sturdy footwear.
- OPEN Bleed Screw
- Connect Power
- Load log between guide rails against wedge.
- Depress Power Button and pull Ram Control Lever to advance and split.
- Release Power Button and Ram Control Lever to retract.
- DISCONNECT Power and CLOSE Bleed Screw when done splitting or leaving machine unattended.

RETRACT  **SPLIT**

ALWAYS KEEP HANDS AWAY FROM LOG WHEN SPLITTING

291371

Protect Yourself and Those Around You

! WARNING

This is a high-powered machine, with moving parts operating with high energy. You must operate the machine safely. Unsafe operation can create a number of hazards for you, as well as anyone else in the nearby area. Always take the following precautions when using this machine:

- Keep in mind that the operator or user is responsible for accidents or hazards occurring to other people, their property, and themselves.
- Always wear protective goggles or safety glasses with side shields while using the Wood Splitter to protect your eyes from possible thrown debris.
- Avoid wearing loose clothing or jewelry, which can catch on moving parts.
- We recommend wearing gloves while using the Wood Splitter. Be sure your gloves fit properly and do not have loose cuffs or drawstrings.
- Wear shoes with non-slip treads when using your Wood Splitter. If you have safety shoes, we recommend wearing them. Do not use the machine while barefoot or wearing open sandals.
- Wear long pants while operating the Wood Splitter.
- Use ear protectors or ear plugs rated for at least 20 dba to protect your hearing.
- Keep bystanders at least 50 feet away from your work area at all times. Stop the engine when another person or pet approaches.

Hydraulic Safety

! WARNING

Escaping pressurized fluid from hydraulic system leaks can have enough force to penetrate skin and cause serious injury or death. Hydraulic fluid can remain pressurized while the motor is off due to the return spring force on the ram. Always follow these precautions:

- Always release residual energy from pressurized hydraulic fluid and allow the fluid to cool before doing any maintenance or repair work on the Wood Splitter.
- Please follow these steps to depressurize the system and release residual hydraulic energy before starting any repairs:
 - Unplug the Wood Splitter from the power source.
 - Move the operating handle down and up from one limit of travel to the other at least four times. Hold the handle for three seconds at each limit of travel. The ram should not move during the 4th cycle and should remain fully retracted.
 - Visit our website at www.drpower.com, call 1-800-DR-OWNER (376-9637), or call a qualified hydraulic mechanic for assistance to replace worn components.
- Never use your hand or any part of your body to check for hydraulic system leaks while the system is pressurized.
- Never remove the fill/dipstick cap from the hydraulic fluid port while the motor is running or while the tank is still warm after the motor is off. Hot pressurized fluid can cause serious injury, so wait for the hydraulic tank to cool before removing cap.
- The Wood Splitter must be operated on a level surface.
- Periodically check for hydraulic fluid leaks by placing a sheet of cardboard under the Wood Splitter while the system is running.
- Get professional medical help at once if hydraulic Fluid penetrates anyone's skin.
- Never adjust the hydraulic system.

Safety for Children and Pets

! WARNING

Tragic accidents can occur if the operator is not alert to the presence of children and pets. Children are often attracted to the machine and the splitting activity. *Never* assume that children will remain where you last saw them. Always follow these precautions:

- Keep children and pets at least 50 feet from the working area and ensure they are under the watchful care of a responsible adult.
- Be alert and turn the machine off if children or pets enter the work area.
- Never allow children to operate the Wood Splitter.

Safety with Electric - Powered Machines

! WARNING

Never overlook the hazards of electricity. Always follow these precautions:

- Never open the switch box or motor cover. Never attempt any electrical repairs yourself. If in doubt, consult a qualified electrician, visit our website at www.DRpower.com or contact DR Power Equipment for toll-free support at: 1-800-dr-owner (376-9637) for help or information.
- Never use an extension cord that is not rated for outdoor use.
- Never operate the Wood Splitter if there is an electrical hazard present.
- Never operate the Wood Splitter in wet conditions.
- Never operate the Wood Splitter with a damaged electrical cord or damaged extension cord.
- Never pull on the electrical cord to move the machine.
- Always grasp the electrical cord plug when unplugging the cord from the outlet; never pull the plug out by the cord. Make sure your fingers do not touch the metal prongs when plugging or unplugging.
- Never operate the Wood Splitter unless the electrical cord is plugged into a properly grounded outlet, which supplies 110-120v power, and is protected by a 15-amp circuit breaker.
- Never tamper with safety devices. Check their proper operation regularly.
- If you will use an extension cord, keep the connection between the electrical cord and the extension cord well away from any water.
- Never use an extension cord longer than 25 feet and smaller than 12 awg in diameter, or longer than 50 feet and smaller than 10 awg in diameter; the cord will produce a voltage drop that will prevent the motor from supplying full power and may cause damage to the motor. Use of a smaller diameter (larger awg number) extension cord could result in melting of the insulation or even create a fire.
- Always keep the electrical cord and/or extension cord away from excessive heat, oil, and sharp objects.

General Safety

! WARNING

Operating this Wood Splitter safely is necessary to prevent or minimize the risk of death or serious injury. Unsafe operation can create a number of hazards for you. Always take the following precautions when operating this Wood Splitter:

- Your Wood Splitter is a powerful tool, not a plaything. Exercise extreme caution at all times. The machine is designed to Split Logs. Do not use it for any other purpose.
- Know how to stop the Wood Splitter quickly; see “stopping the Wood Splitter” in Chapter 3.
- Never operate your unit on a slippery, wet, muddy, or icy surface. Exercise caution to avoid slipping or falling.
- Check the Wood Splitter before turning it on. Never use the machine without ensuring that all guards and shields are in place. Replace damaged, missing or failed parts before using the Splitter.
- Never, under any conditions, remove, bend, cut, fit, weld, or otherwise alter standard parts on the Wood Splitter. This includes all shields and guards. Modifications to your machine could cause personal injuries and property damage and will void your warranty.

⚠ WARNING

- Allow only one person to operate the Wood Splitter at any time.
- If the machine should start making an unusual noise or vibration, turn the machine off and unplug the electrical cord, then inspect for damage. Vibration is generally a warning of trouble. Check for damaged parts and clean, repair and/or replace as necessary.
- Never tamper with safety devices. Check their proper operation regularly.
- Never allow people who are unfamiliar with these instructions to use the Wood Splitter. Allow only responsible individuals who are familiar with these rules of safe operation to use your machine.
- Do not operate the Wood Splitter from ground level. Place Wood Splitter at a comfortable height (24-32 inches), on a stable, flat, and level work surface where there is plenty of room for handling material. Secure the Wood Splitter to the work surface if it tends to slip, walk, or slide.
- Never overload or attempt to split logs beyond the manufacturer's recommendation. Personal injury or damage to the machine could result.
- While using the Wood Splitter, don't hurry or take things for granted. When in doubt about the equipment or your surroundings, stop the machine and take the time to look things over.
- Never operate the machine when under the influence of alcohol, drugs, or medication.
- Use the machine only in daylight.
- Keep all nuts and bolts tight and keep the equipment in good operating condition.
- Always cut the ends of the log you are splitting as squarely as possible.
- Never split more than one log at a time unless you fully extended the ram and you need a second log to complete the split of the first log.
- Never put anything between the log guiding plates and the side of a log; logs spread as they are forced against the wedge.
- Never operate the ram in a stalled position for more than five (5) seconds. The hydraulic fluid may overheat and damage the machine. If the wood being split is excessively hard, stop the machine, rotate the log 180° and try again. If you still cannot split the log, reject THE LOG AS IT EXCEEDS THE CAPACITY OF THE MACHINE.
- Never leave the wood splitter unattended while plugged in. If you leave the area, unplug the power source.
- Clean up as you work; accumulated split wood and wood chips can create a hazardous work environment.
- Keep your hands and feet away from the splitting area while the ram is in motion.
- Use only your hands to operate the Wood Splitter controls.
- Do not place your hands at pinch points where they can catch between a log and the wedge, log guiding plates or the ram.
- Do not put any part of yourself, your clothing, or your personal protective equipment into a crack in a log that you are splitting; it might close suddenly with great force.
- Never split anything other than logs free of nails, wires, and branches. Maximum log length is 20" with a maximum diameter of 10" for the DR 5-Ton Wood Splitter.
- Never operate the Wood Splitter in an area of natural gas or flammable liquids.
- Always operate the Wood Splitter from the operator zone (Chapter 3). Never stand on, straddle, or climb over the Wood Splitter at any time.
- Do not handle logs by their ends when you position them on the Wood Splitter.
- Always unplug the Wood Splitter from the power source before adjusting or servicing the machine. If you have to stop to remove any debris from the machine, always retract the ram and unplug the machine.
- Do not move or reposition the Wood Splitter with its motor running.

A Note to All Users

No list of warnings and cautions can be all-inclusive. If situations occur that are not covered by this manual, the operator must apply common sense and operate this DR 5-TON WOOD SPLITTER in a safe manner. Contact us at www.DRpower.com or call 1-800-DR-OWNER (376-9637) for assistance.

Chapter 2: Setting Up The DR 5-TON WOOD SPLITTER

It may be helpful to familiarize yourself with the controls and features of your DR 5-TON WOOD SPLITTER as shown in Figure 1 before beginning these procedures. If you have any questions at all, please feel free to contact us at www.DRpower.com.

DR 5-TON WOOD SPLITTER Controls and Features

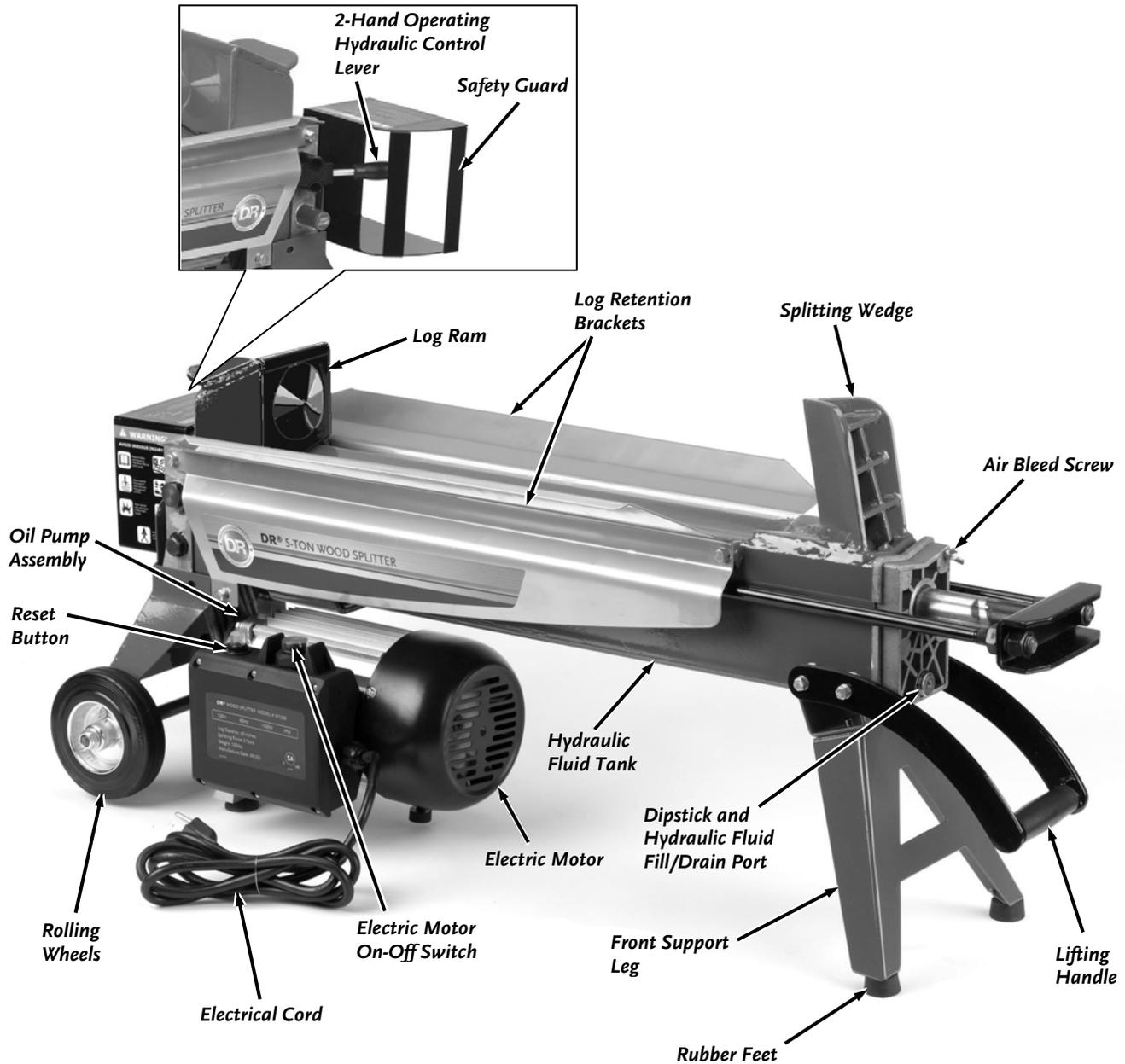


Figure 1

Specifications

Motor	120V~50Hz, 1500W IP54
Log Capacity	
Length	20 inches
Diameter*	2 - 10 inches
Splitting Force	5 ton
Hydraulic Pressure	2,300 psi
Hydraulic Fluid Capacity	3.75 quarts
Hydraulic Fluid Type (or equivalent)	SHELL Tellus 22 MOBIL DTE 11 ARA Vitam GF 22 BP Energol HLP-HM 22
Machine Length	37 inches
Machine Width	11 inches
Machine Height	20 inches
Machine Weight	93 lbs

*The diameter of the log is indicative - a small log can be difficult to split when it contains knobs or a particularly tough fiber. On the other hand, it may not be difficult to split logs with regular fibers even if its diameter exceeds the max. figure indicated above.

Unpacking the DR 5-Ton Wood Splitter

Tools Needed:

- Utility Knife

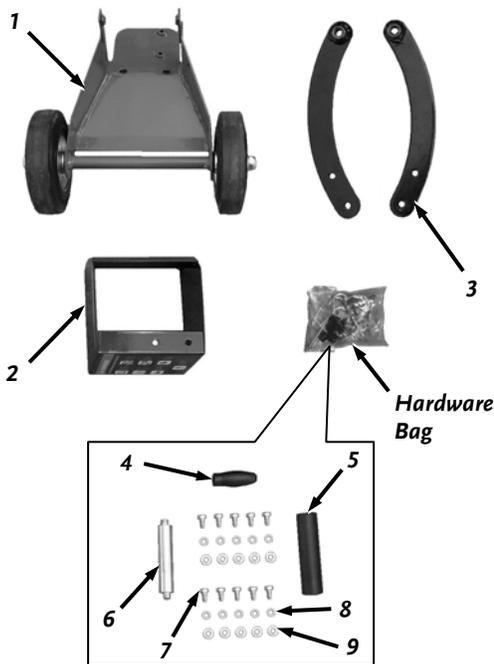


Figure 2

1. Cut the tape that secures the top box flaps with a Utility Knife.
2. Remove the Carrying Handle Brackets, Carrying Handle, Rolling Wheel Bracket w/Wheels, Control Lever Guard, and Hardware Bag from the top section of the foam insert (**Figure 2**).
3. Pull the foam insert from the shipping box.
4. Tip the shipping box onto its side and carefully slide the Splitter from the box. Position the Splitter upside down on a flat surface (Motor up, Wedge and Log Ram down).

Shipping Box Parts

Item	Description	Qty
1	Wheel Assembly	1
2	Control Lever Guard	1
3	Front Handle Bracket	2

Hardware Bag

4	Control Lever Grip	1
5	Front Handle Grip	1
6	Front Handle Shaft	1
7	Screw, HHC, M6 x 12	10
8	Washer, SpringLock, M6	10
9	Washer, Flat, M6	10

Compare the Parts (**Figure 2 and Table above**) with the parts you removed from the Shipping Box. If you have any Questions or if you need assistance, contact us at www.DRpower.com or call Toll-Free 1-800-DR-OWNER (376-9637).

Assembling the DR 5-Ton Wood Splitter

! WARNING

For your own safety, do not connect the log splitter to the power source until the machine is completely assembled and you read and understand the entire instruction manual

Tools Needed:

- 10mm Wrench

1. Install the Rolling Wheel Bracket onto the rear of the Splitter with two Bolts, Lock Washers and Flat Washers at the rear and two Bolts, Lock Washers and Flat Washers on each side using a 10mm Wrench (**Figure 3**).

Note: Ensure that you install the Tabs of the Rolling Wheel Bracket under the Side Rails.

2. Slide the Rubber Grip onto the Front Handle Shaft and screw the Handle Brackets onto the Front handle Shaft until snug. Align the Brackets parallel to each other (**Figure 4**).
3. Install the Front Handle to the Splitter with two Bolts, Lock Washers and Flat Washers on each side (4 total) using a 10mm Wrench (**Figure 5**).
4. Roll the Splitter over onto the Legs and Wheels.
5. Install the Control Lever Guard to the Splitter with two Bolts, Lock Washers and Flat Washers using a 10mm Wrench (**Figure 6**).
6. Screw the Control Lever Grip onto the Control Lever Shaft.

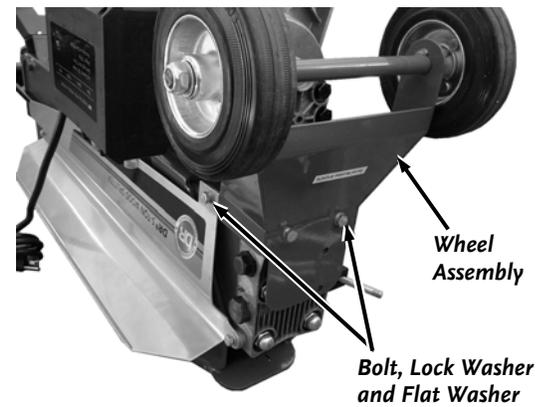


Figure 3

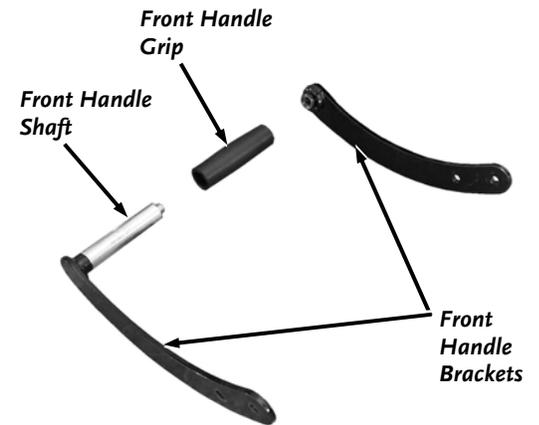


Figure 4

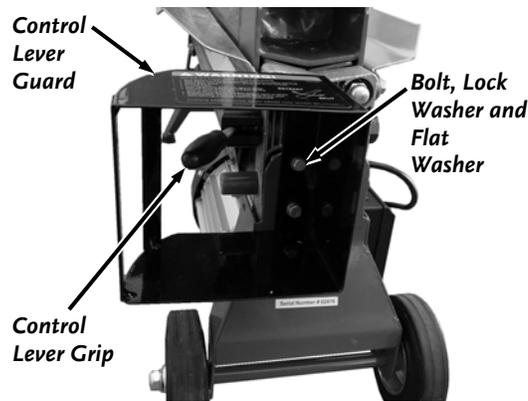


Figure 6

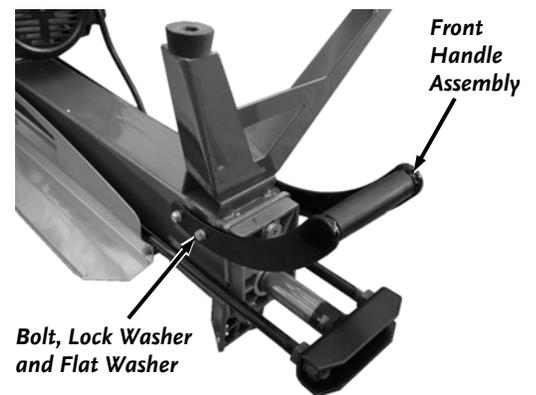


Figure 5

Chapter 3: Operating The DR 5-TON WOOD SPLITTER

It may be helpful to better familiarize yourself with the features of your Wood Splitter by reviewing Figure 1 in Chapter 2 before beginning the steps outlined in this chapter. This Splitter has been designed as a home use model only. It is designed for operating under ambient temperatures between 40° F. and 105° F. and install at altitudes no more than 3,250 ft. above M.S.L. The surrounding humidity should be less than 50% at 100° F. The Wood Splitter can be stored or transported under ambient temperatures between -10° F. and 130° F.

! WARNING

Read and understand the warnings listed in “Chapter 2 General Safety Rules” before operating this Wood Splitter.

Before Splitting Wood

Inspect the area in which you will be working.

- Place the Wood Splitter only on a firm, level, supported surface 24-32 inches above the ground.
- NEVER operate the Wood Splitter on the ground as there is risk of injury and would not be comfortable for the operator while in use.
- The site must be free of slippery surfaces and potentially hazardous obstacles. Also, make sure there won't be people or animals within a six-foot radius around the Wood Splitter.

Plan your work before you start.

- Have the logs that you are splitting positioned where you can easily reach them. Remember, the maximum log length is 20" and the maximum diameter is 10" for this Wood Splitter.
- Have a site located where the split wood can be stacked or loaded onto a truck or nearby carrier.

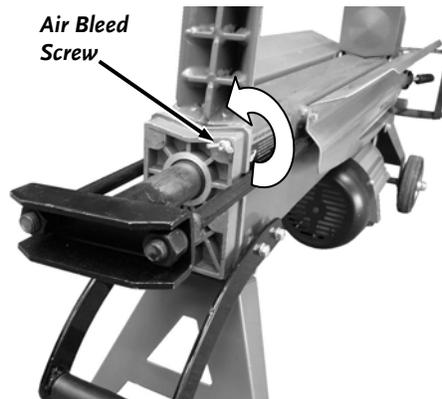


Figure 7

! CAUTION

- Always make certain that the machine is on a firm level surface and off the ground at a comfortable height (24-32 inches).
- It is important that the Air Bleed Screw is open when you use the Wood Splitter (**Figure 7**). Open the Air Bleed Screw by turning it counter-clockwise three to four times. Failure to open the Air Bleed Screw before using could damage the Wood Splitter.
- Use care, do not over tighten and strip the Air Bleed Screw threads when screwing in for transport.

1. Prior to using the Wood Splitter, open the Air Bleed Screw by turning the Thumbscrew counter-clockwise three to four times (**Figure 7**). **Leave the Air Bleed Screw open in this position while using the machine.** We recommend closing the Air Bleed Screw after each use, but you can leave the Air Bleed Screw open when you are finished.

NOTE: *If you are going to transport the machine you should close the Air Bleed Screw being careful not to over tighten and strip the screw.*

2. Connect the Electrical Cord from the Wood Splitter to a standard electrical, 110-120VAC, grounded power source fused at 15 AMPS. If using an extension cord, it must be 12AWG and less than 25 feet long or 10AWG and less than 50 feet long with a rating of 15 AMPS. Route the cord from the Wood Splitter to the power source in such a way that safeguards against damaging the cord during the wood splitting session. Be sure to avoid wet conditions.

Tip: In cold weather, see “Specifications” in Chapter 2 for hydraulic fluid information and cycle the Ram to warm up the hydraulic fluid. This will provide full power from your DR 5-TON WOOD SPLITTER.

Splitting Safety

The DR 5-TON WOOD SPLITTER has a Ram with 5 tons of force.

! WARNING

- Always be sure to stand inside the operator zone when operating the wood splitter (**Figure 8**). This is the area directly behind your 5-ton electric/hydraulic DR wood splitter. Never operate the wood splitter from anywhere else.
- Handle logs only from the sides, never by the ends.
- Be very careful to keep arms and fingers away from the wedge, ram, and splitting area.
- Keep hands and fingers clear at all times. Many wood splitting accidents happen on the return portion of the stroke.
- Do not put any part of your body within the splitting area. Use a stick if you need to remove debris from the splitting area.

Operating the DR 5-TON WOOD SPLITTER

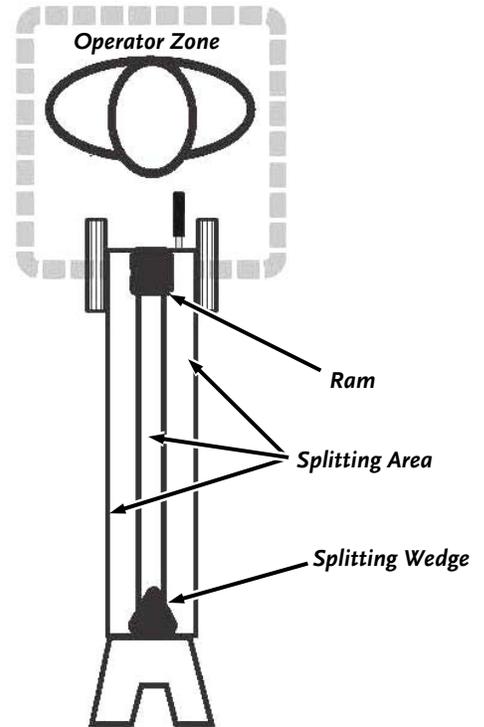
! CAUTION

- Never force pressure on the log splitter for more than 5 seconds in order to split excessively hard wood.
- For best splitting results, place log flat on the beam between the log guides with butt end against the leading edge of the wedge.
- Never attempt to split a log at an angle and be sure the wedge and ram will contact the log squarely on the ends.
- DO NOT force the blade by splitting the upper part of the log. This will break the blade or damage the machine (**Figure 9**).
- Split log in the direction of its grain. Placing logs across the log splitter for splitting is dangerous and may seriously damage the machine.

The DR 5-Ton Wood Splitter requires the use of both hands to operate. The user's left hand controls the Hydraulic Control Lever, while the right hand controls the Push Button Switch. The Wood Splitter will freeze upon absence of either hand. The Log Ram will return back to the starting position only after both hands release the controls.

NOTE: Before starting the splitting operation, the log Ram should be cycled 3 to 4 times back and forth (with the Air Bleed Screw open). This will remove any air that may have mixed into the hydraulic fluid from transporting. See "Before Splitting Wood" on previous page for the Air Bleed Screw Operation.

Tip: In cold weather, cycle the Ram to warm up the hydraulic fluid. This will provide full power from the DR 5-TON WOOD SPLITTER. See "Specifications" in Chapter 2 for hydraulic fluid information.



Never handle wood by the ends.



Figure 8



Figure 9

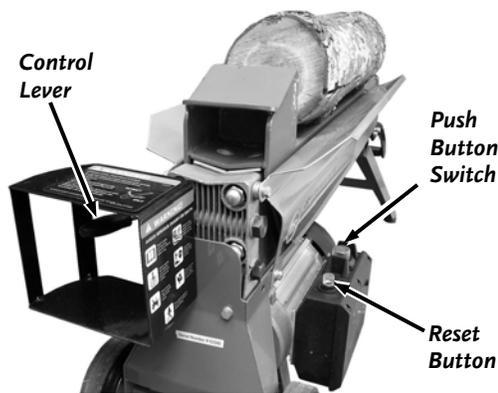


Figure 10

1. With a log properly loaded, and with the Air Bleed Screw open, hold down the Push Button Switch with your right hand and move the Control Lever to the right with your left hand (**Figure 10**).

NOTE: If the Electric Motor does not start, try pushing in the Reset Button.

NOTICE

If the log does not split immediately, do not continue the forward thrust of the ram for more than five (5) seconds. This can damage the splitter. After the ram has retracted, try repositioning the log on the splitter or set the log aside.

2. The Ram will now compress the log against the wedge, splitting the log.
3. Keep holding the Operating Handle down until the split pieces of the log fall away or the Ram has reached the end of its stroke. When you have finished splitting a log, release the Operating Handle and Push Button Switch. The Ram will retract to its start position.

CAUTION

Make sure nothing interferes with the ram while it retracts.

4. Stack the split wood as you work. This will provide a safer work area by keeping it uncluttered, avoiding the danger of tripping or damaging the electrical cord.

How to Free a Jammed Log from the Splitting Wedge

WARNING

- Never place your hands near the log when attempting to free it from the wedge.
- Never ask for the assistance of another person when freeing a jammed log.
- Never try to extract the jammed log by hitting it with a tool; this could damage the machine (**Figure 11**).



Figure 11

1. Release the Operating Handle and Push Button Switch so that the Ram fully retracts (**Figure 10**).
2. Insert a plastic or wooden wedge under the jammed log (**Figure 12**) and activate the Ram to push the wedge under the jammed log.
3. Repeat this process, using progressively larger wedges, until the jammed log is free.
4. Lift the log off the Wood Splitter after loosening.

Stopping the Wood Splitter

Stop the Splitter Motor and Ram by releasing the Push Button Switch. Retract the Ram by releasing the Push Button Switch and the Control Lever.

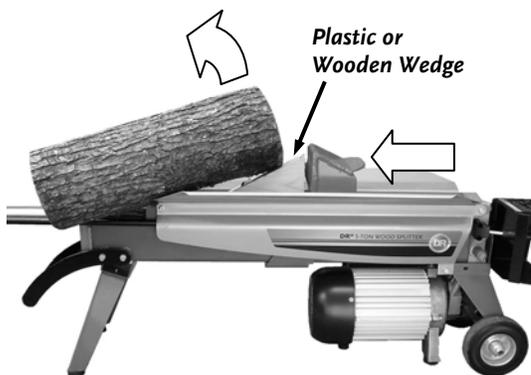


Figure 12

Chapter 4: Maintaining The DR 5-TON WOOD SPLITTER

Regular maintenance is the way to ensure the best performance and long life of your machine. Please refer to this manual for maintenance procedures.

! WARNING

Before performing any repairs or maintenance procedure, unplug the wood splitter power cord from the power source.

Regular Maintenance Checklist

PROCEDURE	BEFORE EACH USE	EVERY 150 HOURS
Clean the log Ram and Guides.	▲	
Check the Splitting Wedge for sharpness.	▲	
Check the general condition of the Wood Splitter (e.g. nuts, bolts, welds, etc).	▲	
Check the Ram for smooth travel.	▲	
Check the condition of the electrical cord.	▲	
Check the hydraulic fluid level (See “Adjusting the Hydraulic Fluid Level”).	▲	
Change the hydraulic fluid (See “Changing the Hydraulic Fluid”).		▲

Adjusting the Hydraulic Fluid Level

! WARNING

Before performing any repairs or maintenance procedure, unplug the wood splitter power cord from the power source.

NOTE: Check the hydraulic fluid level every few months if the Troubleshooting Table in Chapter 5 suggests that the fluid level may be off.

Tools and Supplies Needed:

- 6mm Allen Wrench
- Small Funnel
- Clean Rags

1. Check the hydraulic fluid level by tipping the machine up vertical on the Wheels (you may need to have someone support the Wood Splitter to prevent tipping over). Clean the area around the Hydraulic Fluid Fill/Drain Port (**Figure 13**) and then, using a 6mm Allen Wrench, unscrew and remove the Dipstick located in the Hydraulic Fluid Fill/Drain Port.
2. Clean the Dipstick with a Rag, insert the Dipstick (do not screw the Dipstick down when checking), remove and check the level; it should be between the two marks on the Dipstick. If the fluid is too high, simply pour out a little at a time into a suitable container by tilting the Wood Splitter. If the fluid is too low, insert a small Funnel and add Hydraulic Fluid (See “Specifications” in Chapter 2 for Fluid type) a little at a time, until the level falls between the two marks on the Dipstick.
3. Clean the Dipstick and the O-ring seal thoroughly and reinstall, being careful not to damage the threads of the aluminum Hydraulic Fluid Cylinder End Cover.
4. Lower the machine to the ground, open the Air Bleed Screw and cycle the Ram back and forth 3 or 4 times to purge any air from the hydraulic system (see “Operating The DR 5-TON WOOD SPLITTER” in Chapter 3).

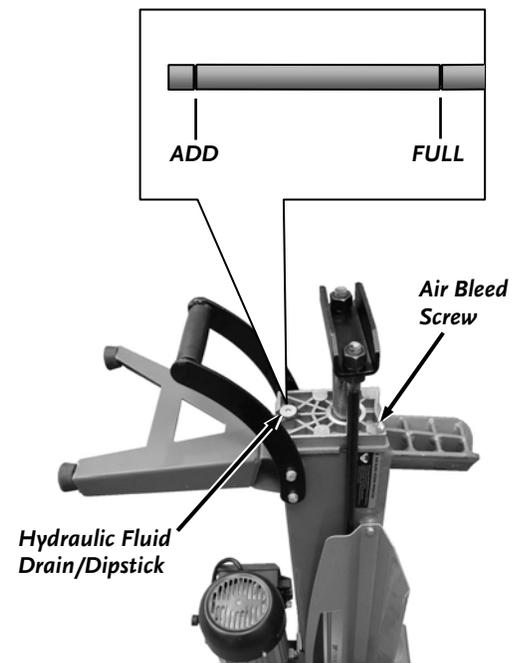


Figure 13

Changing the Hydraulic Fluid

WARNING

Before performing any repairs or maintenance procedure, unplug the wood splitter power cord from the power source.

Tools and Supplies Needed

- 6mm Allen Wrench
- 10mm Wrench
- Clean Rags
- Small Funnel
- Hydraulic Fluid
- Approved Container (1 gallon or more capacity)

Replace the Hydraulic Fluid in the Wood Splitter after every 150 hours of use. Take the following steps to replace the Fluid.

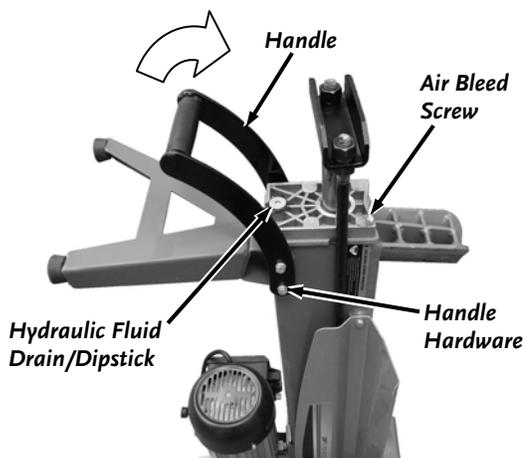


Figure 14

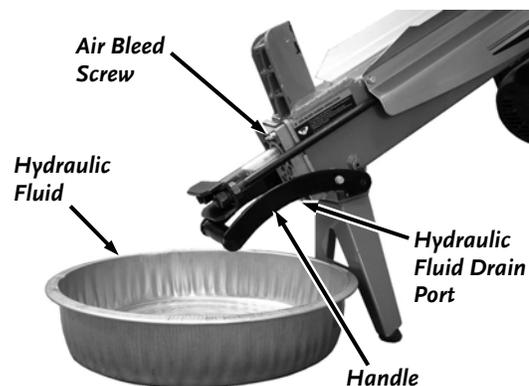


Figure 15

1. Make sure the Air Bleed Screw is screwed down tight.
2. Tip the machine up vertical on the Wheels (you may need to have someone support the splitter to prevent tipping over). Clean the area around the Hydraulic Fluid Fill/Drain Port (**Figure 14**) and then, using a 6mm Allen Wrench, unscrew and remove the Dipstick located in the Hydraulic Fluid Fill/Drain Port.
3. Remove the rear two Bolts from the Handle and rotate the Handle out of the way
4. Tip the Splitter down onto the Legs as you drain the Fluid into an approved Container (1 gallon or more capacity) and continue tipping the machine until the Tank is empty (**Figure 15**).
5. Tip the Splitter up vertical onto the Wheels again and insert a Small Funnel into the Dipstick opening.
6. Refill the Tank with 3.75 quarts of fresh Hydraulic Fluid.
7. Clean the Dipstick with a Rag, insert the Dipstick (do not screw the Dipstick down when checking), remove and check the level; it should be between the two marks on the Dipstick. If the fluid is too high, simply pour out a little at a time into a suitable container by tilting the Wood Splitter. If the fluid is too low, insert a small Funnel and add Hydraulic Fluid (See “Specifications” in Chapter 2 for Fluid type) a little at a time, until the level falls between the two marks on the Dipstick.
8. Clean the Dipstick and the O-ring seal thoroughly and reinstall the Dipstick, being careful not to damage the threads of the aluminum Hydraulic Fluid Cylinder End Cover.
9. Lower the machine to the ground, loosen the Air Bleed Screw three or four turns counterclockwise and cycle the Ram back and forth 3 or 4 times to purge any air from the hydraulic system (See Operating The DR 5-TON WOOD SPLITTER in Chapter 3).
10. Periodically check fluid level to ensure it is between the 2 grooves around the dipstick. If the level is below the lower limit, fill until level is correct.

Sharpening the Wedge

! WARNING

Before performing any repairs or maintenance procedure, unplug the wood splitter power cord from the power source.

Tools needed:

- Fine-Toothed Flat File

1. Before each splitting session, check the sharpness of the Wedge. As required, remove any burrs or flat spots on the Wedge using a fine-toothed flat file.

Make no Adjustments

! WARNING

DO NOT adjust the maximum pressure limiting screw (**Figure 16**). The pressure limiting screw has been sealed at the factory to prevent unauthorized adjusting. Resetting the screw will cause the hydraulic pump to fail to output enough splitting pressure or cause too much pressure, which may result in serious injury, as well as damage to the machine.



Figure 16

Chapter 5: Troubleshooting

Most problems are easy to fix. Consult the Troubleshooting Table below for common problems and their solutions. If you continue to experience problems, contact us at www.DRpower.com or call toll-free 1-800-DR-OWNER (376-9637) for support.

WARNING

Before performing any repairs or maintenance procedure, unplug the wood splitter power cord from the power source.

Troubleshooting Table

SYMPTOM	POSSIBLE CAUSE
<i>Ram will not move or is slow to respond.</i>	<ul style="list-style-type: none"> ⇒ The Air Bleed Screw may not be open. ⇒ The motor Reset has tripped; push the Reset Button. ⇒ Bleed any accumulated air from the hydraulic system. ⇒ The Wood Splitter may not be on a level surface. ⇒ Make sure the voltage at the outlet or extension cord connection to the DR 5-TON WOOD SPLITTER is 110-120VAC. ⇒ If you are using an extension cord, make sure that the cord is no more than 25 feet long, is not smaller than 12 AWG wire or no more than 50 feet long, and is not smaller than 10 AWG wire. ⇒ The hydraulic fluid may be low. Check and adjust the level as required. ⇒ In extreme high temperature and heavy rapid use, the hydraulic fluid may have overheated. Allow the machine to cool. ⇒ The wood you are splitting may be too hard, it has knots, or its fiber is very tough. ⇒ Unauthorized adjustment was made to the maximum pressure limiting screw. Visit our website at www.DRPower.com, call 1-800-DR-OWNER (376-9637), or call a qualified hydraulic mechanic for assistance to replace worn components. Be sure to reference Hydraulic Safety in Chapter 1.
<i>Log fails to split.</i>	<ul style="list-style-type: none"> ⇒ Check the possible causes for the previous Ram operation symptom. ⇒ Incorrect positioning of the log; re-position the log flat on the splitting beam with the ends squarely against the Ram face and Splitting Wedge. ⇒ Log exceeds permitted dimensions or the wood is too hard for the capacity of the machine. The maximum log length is 20" with a maximum diameter of 10" for the DR 5-TON WOOD SPLITTER. ⇒ The Splitting Wedge has burrs or nicks and needs sharpening. ⇒ There may be a hydraulic fluid leak. Locate the leak using a piece of cardboard under the machine. Visit our website at www.DRPower.com, call 1-800-DR-OWNER (376-9637), or call a qualified hydraulic mechanic for assistance to replace worn components. Be sure to reference Hydraulic Safety in Chapter 1. ⇒ Hydraulic pressure is too low. Visit our website at www.DRPower.com, call 1-800-DR-OWNER (376-9637), or call a qualified hydraulic mechanic for assistance to replace worn components. Be sure to reference Hydraulic Safety in Chapter 1.
<i>Ram advances with a jerky motion or with strong vibrations.</i>	<ul style="list-style-type: none"> ⇒ Check the possible causes for the Ram operation symptom in "Log fails to split" above. ⇒ Check the hydraulic fluid level. ⇒ Bleed any accumulated air from the hydraulic system. If the problem persists, visit our website at www.DRPower.com or call 1-800-DR-OWNER (376-9637) for assistance.

Troubleshooting Table (Continued)

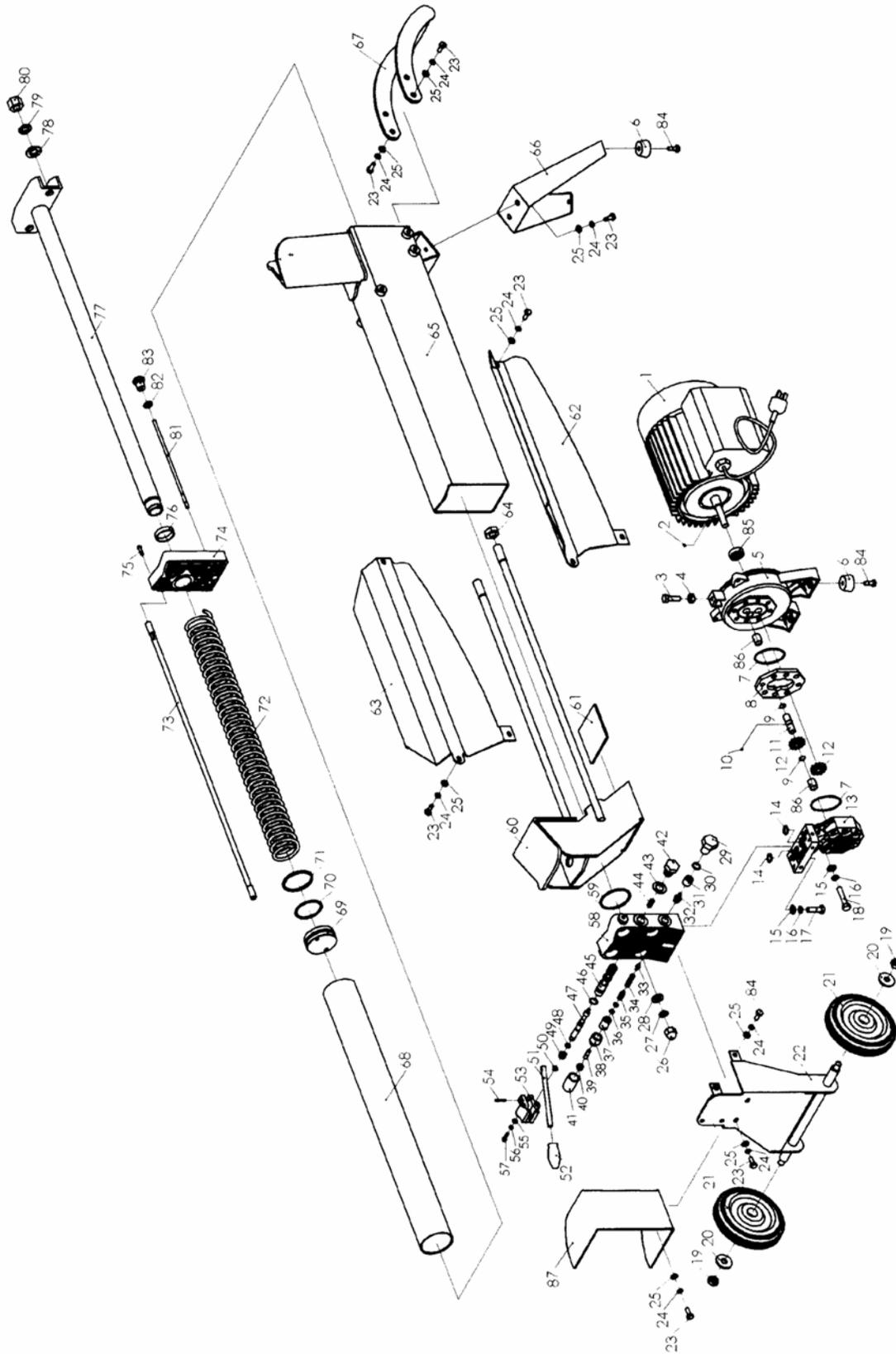
WARNING

Before performing any repairs or maintenance procedure, unplug the wood splitter power cord from the power source.

SYMPTOM	POSSIBLE CAUSE
<i>Hydraulic fluid leaking from the Air Bleed Screw.</i>	⇒ The DR 5-TON WOOD SPLITTER may not be on a level surface.
<i>Hydraulic fluid leaking from the ram or other external parts.</i>	⇒ Check that the Air Bleed Screw is tight before moving the machine. Use care: Do not over tighten and strip the Air Bleed Screw Threads. ⇒ The hydraulic fluid seals may be worn. Visit our website at www.DRPower.com or call 1-800-DR-OWNER (376-9637), or call a qualified hydraulic mechanic for assistance to replace worn components. Be sure to reference Hydraulic Safety in Chapter 1.

Schematic – DR 5-TON WOOD SPLITTER

NOTE: If you have a question about a part shown here but is not listed on the previous page, call 1-800-DR-OWNER (376-9637).



Notes:

DR[®] 5-TON WOOD SPLITTER



2-Year Limited Warranty

Terms and Conditions

The DR[®] 5-TON WOOD SPLITTER is warranted for two (2) years against defects in materials or workmanship when put to ordinary and normal consumer use.

For the purposes of all the above warranties, "ordinary and normal consumer use" refers to non-commercial residential use and does not include misuse, accidents or damage due to inadequate maintenance.

DR Power Equipment certifies that the DR[®] 5-TON WOOD SPLITTER is fit for ordinary purposes for which a product of this type is used. DR Power Equipment however, limits the implied warranties of merchantability and fitness in duration to a period of two (2) years in consumer use.

The 2-Year Limited Warranty on the DR[®] 5-TON WOOD SPLITTER starts on the date the machine ships from our factory. The 2-Year Limited Warranty is applicable only to the original owner.

The warranty holder is responsible for the performance of the required maintenance as defined by the manufacturer's owner's manuals. The warranty holder is responsible for replacement of normally wearing parts. Accessories to the machine are not covered by this warranty.

During the warranty period, the warranty holder is responsible for the machine transportation charges, if required. During the warranty period, warranty parts will be shipped by standard method at no charge to the warranty holder. Expedited shipping of warranty parts is the responsibility of the warranty holder.

SOME STATES DO NOT ALLOW LIMITATIONS ON THE LENGTH OF IMPLIED WARRANTIES, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU.

DR Power Equipment shall not be liable under any circumstances for any **incidental or consequential damages or expenses** of any kind, including, but not limited to, cost of equipment rentals, loss of profit, or cost of hiring services to perform tasks normally performed by the DR[®] 5-TON WOOD SPLITTER.

SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU.

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

Daily Checklist for the DR 5-TON WOOD SPLITTER

To help maintain your DR 5-TON WOOD SPLITTER for optimum performance, we recommend you follow this checklist each time you use your Wood Splitter.

WARNING

Before performing any repairs or maintenance procedure, unplug the Wood Splitter power cord from the power source.

- [] Clean the log Ram and Guides.
- [] Check the Splitting Wedge for damage and sharpness.
- [] Check the general condition of the Wood Splitter, e.g.; nuts, bolts, welds, etc.
- [] Check the Ram for smooth travel.
- [] Check the condition of the electrical cord.
- [] Check the hydraulic fluid level

End of Season and Storage

WARNING

Before performing any repairs or maintenance procedure, unplug the Wood Splitter power cord from the power source.

- Wipe down the DR 5-TON WOOD SPLITTER to remove any moisture, wood chips, and dirt that may have accumulated on the Log Guides and Operating Handle..
- Apply a thin coating of oil or #2 Lithium Grease to the leading edge of the Splitting Wedge.
- Relieve any internal air pressure by turning the Air Bleed Screw counter-clockwise 4 times to open, and then retighten by turning clockwise prior to storing the machine (Figure 7 on page 10). DO NOT OVER TIGHTEN!
- If possible, store the Wood Splitter in a dry, protected place. If it is necessary to store the Wood Splitter outside, cover it with a protective material (especially the Motor).

NOTE: A Protective Cover, Item Number 21020, is available through DR Power Equipment. Visit our website at www.DRpower.com or call Toll-Free 1-800-DR-OWNER (376-9637).



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