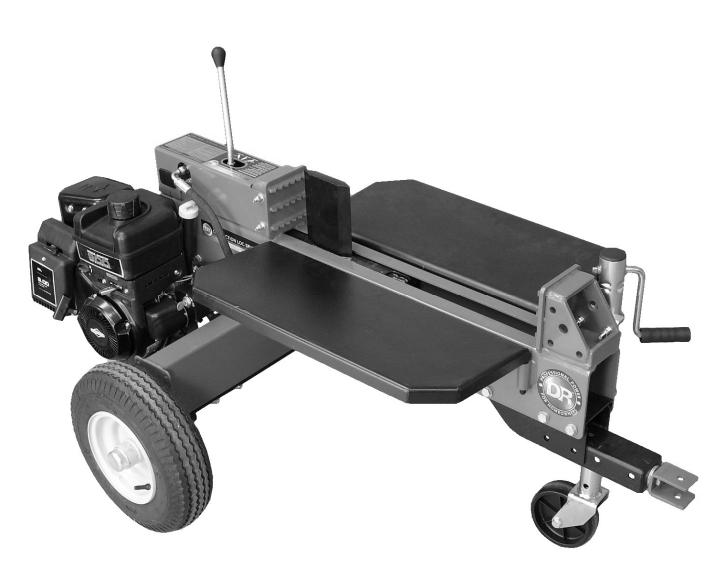


SAFETY & OPERATING INSTRUCTIONS





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

A WARNING

Read and understand this manual and all instructions before operating the DR Dual-Action Gas Log Splitter.

Table of Contents

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Conventions used in this manual

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 the upper left portion of 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.

Read this safety & operating Instructions manual before you use the DR DUAL-ACTION GAS LOG 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 DUAL-ACTION GAS LOG 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 LOG SPLITTER as you set up and before you operate the unit. Replace damaged or missing safety and information labels immediately.



#29394

WARNING: Check Oil Before Starting Engine

#13758



#18887

AWARNING! DO NOT SIT OR STAND ON TRAY

29395

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 Log 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 Log Splitter. Be sure your gloves fit properly and do not have loose cuffs or drawstrings.
- Wear shoes with non-slip treads when using your Log 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 Log 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.

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 Log Splitter.

Hydraulic Safety

🛕 WARNING

High fluid pressures are developed in hydraulic machines. Pressurized hydraulic fluid escaping through a pin hole opening can puncture skin and cause severe blood poisoning. Therefore, the following Instructions should be heeded at all times.

- Do not operate the unit with frayed, kinked, cracked or damaged hoses, fittings, or tubing. Stop the engine, wait 5 minutes and relieve hydraulic system pressure before changing or adjusting fittings, hoses, tubing, or other system components.
- Do not change any Log Splitter relief valve settings. They are set at the factory for best Splitter performance and safety.
- Do not check for leaks with your hand. Leaks can be located by passing cardboard or wood over the suspected area: 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.
- Always wear safety glasses to protect your eyes from hydraulic fluid.

A WARNING

Gasoline is a highly flammable liquid. Gasoline also gives off flammable vapor that can be easily ignited and cause a fire or explosion. Never overlook the hazards of gasoline. Always follow these precautions:

- Never run the engine in an enclosed area or without proper ventilation as the exhaust from the engine contains carbon monoxide, which is an odorless, tasteless, and deadly poisonous gas.
- Store all fuel and oil in containers specifically designed and approved for this purpose and keep away from heat and open flame, and out of the reach of children.
- Replace rubber fuel lines and grommets when worn or damaged and after 5 years of use.
- Fill the gasoline tank outdoors with the engine off and allow the engine to cool completely. Don't handle gasoline if you or anyone nearby is smoking, or if you're near anything that could cause it to ignite or explode. Reinstall the fuel tank cap and fuel container cap securely.
- If you spill gasoline, do not attempt to start the engine. Move the machine away from the area of the spill and avoid creating any source of ignition until the gas vapors have dissipated. Wipe up any spilled fuel to prevent a fire hazard and properly dispose of the waste.
- Allow the engine to cool completely before storing in any enclosure. Never store a machine that has gas in the tank, or a fuel container, near an open flame or spark such as a water heater, space heater, clothes dryer or furnace.
- Never make adjustments or repairs with the engine running. Shut down the engine, disconnect the spark plug wire, keeping it away from the spark plug to prevent accidental starting, wait 5 minutes before making adjustments or repairs.
- Never tamper with the engine's governor setting. The governor controls the maximum safe operation speed and protects the engine. Over-speeding the engine is dangerous and will cause damage to the engine and to the other moving parts of the machine. If required, see your authorized dealer for engine governor adjustments.
- Keep combustible substances away from the engine when it is hot.
- Never cover the machine while the muffler is still hot.
- Do not operate the engine with the air cleaner or the carburetor air intake cover removed. Removal of such parts could create a fire hazard. Do not use flammable solutions to clean the air filter.
- The muffler and engine become very hot and can cause a severe burn; do not touch.

Towing (optional Road Tow Kit)

🛕 WARNING

- ALWAYS check before towing to make certain your 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 splitter. Be sure the safety chains are properly hooked to the vehicle leaving enough slack for turning.
- ALWAYS raise the jack to the highest setting before transporting the splitter.
- ALWAYS use accessory lights and devices when transporting on a road or highway to warn operators of other vehicles. Check your local government regulations for DOT information.
- ALWAYS allow for added length of the splitter when turning, parking, crossing intersections, and in all driving situations.
- ALWAYS be careful when backing up. You could jackknife your splitter if care is not taken.
- ALWAYS travel slowly over rough terrain, on hillsides, and around curves to prevent tipping.
- NEVER exceed 30 mph. when towing your 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 allow anyone to sit or ride on your splitter.
- NEVER carry any cargo on your splitter.
- NEVER tow the splitter near the edge of a ditch.

General Safety

Operating this Log 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 Log Splitter:

- Your Log 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 Log Splitter quickly; see "stopping the engine" in chapter 3.
- Never operate your unit on a slippery, wet, muddy, or icy surface. Exercise caution to avoid slipping or falling.
- See manufacturer's instructions for proper operation and installation of accessories. Only use accessories approved by DR Power Equipment.
- Never use the machine without ensuring that all guards and shields are in place.
- Never, under any conditions, remove, bend, cut, fit, weld, or otherwise alter standard parts on the Log Splitter. This includes all shields and guards. Modifications to your machine could cause personal injuries and property damage and will void your warranty.
- Allow only one person to operate the Log Splitter at any time.
- If the machine should start making an unusual noise or vibration, shut down the engine, disconnect the spark plug wire, keeping it away from the spark plug to prevent accidental starting, wait 5 minutes for machine to cool down, 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.
- Before performing any maintenance or inspection procedure on the Log Splitter shut down the engine, disconnect the spark plug wire keeping it away from the spark plug to prevent accidental starting, wait 5 minutes for machine to cool down.
- Never allow people who are unfamiliar with these instructions to use the Log Splitter. Allow only responsible individuals who are familiar with these rules of safe operation to use your machine.
- Never overload or attempt to split logs beyond the manufacturer's recommendation. Personal injury or damage to the machine could result.
- While using the Log 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.
- Stay alert for hidden hazards or traffic.
- Keep all nuts and bolts tight and keep the equipment in good operating condition.

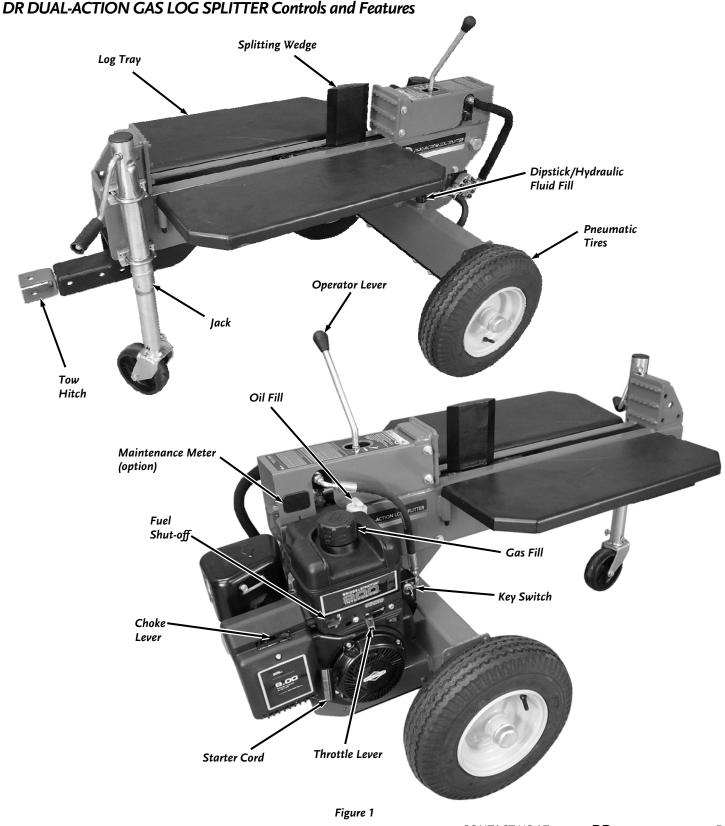
A Note to All Users

Under California law, and the laws of some other states, you are not permitted to operate an internal combustion engine using hydrocarbon fuels without an engine spark arrester. This also applies to operation on US Forest Lands. All DR[®] Dual-action gas log splitters shipped to California, New Mexico and Washington State are provided with spark arresters. Failure of the owner or operator to maintain this equipment in compliance with state regulations is a misdemeanor under California law and may be in violation of other state and/or federal regulations. Contact your State Park Association or the appropriate state organization for specific information in your area.

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[®] Dual-action gas log 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 DUAL-ACTION GAS LOG SPLITTER

It may be helpful to familiarize yourself with the controls and features of your DR Dual-Action Gas Log 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.



CONTACT US AT www.DRpower.com 7

Specifications

	Manual Start	Electric Start
Engine	Refer to Engine Manufacturers User Manual for Engine Specifications	Refer to Engine Manufacturers User Manual for Engine Specifications
Bed height	24" (610mm)	24" (610mm)
Wedge	6.61" (168mm) h, .75" (19mm) w high carbon steel.	6.61" (168mm) h, .75" (19mm) w high carbon steel.
Log Trays	27.45in (697mm) L x 11.45in (290mm) W	27.45in (697mm) L x 11.45in (290mm) W
Force/Tonnage	15 ton	15 ton
Log Length	20 inches	20 inches
Log Diameter*	30 inches	30 inches
Cycle Time	Approx. 11 seconds	Approx. 11 seconds
Wheels & Tires	Dot Approved, 4.8/4-8, Steel Wheel With Taper Roller Bearings	Dot Approved, 4.8/4-8, Steel Wheel With Taper Roller Bearings
Weight	328 lbs (150kg)	336 lbs (153kg)
Dimensions	64"L X 40.5"W X 38.5"H	64"L X 40.5"W X 38.5"H
Cylinder Size	3" (76mm) Bore, 18.51" (470mm) Stroke	3" (76mm) Bore, 18.51" (470mm) Stroke
Hydraulic Tank	6 Quarts	6 Quarts
Pump	Single Stage, 2.84Gal/min (10 L/minute)	Single Stage, 2.84Gal/min (10 L/minute)
Control Valve	Integrated Pressure Relief	Integrated Pressure Relief
Hydraulic Fluid	See Table-1 on page 10	See Table-1 on page 10

*The diameter listed is indicative of the maximum suggested size - a small log can be difficult to split when it contains knots 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 maximum indicated above.

Assembling the DR DUAL-ACTION GAS LOG SPLITTER

Tools and Supplies Needed:

- Two 3/4" Wrenches
- 1-1/2" Wrench
- Pliers
- Soft Face Hammer
- Two 1/2" Wrenches
- 7/8" Wrench

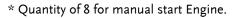
- 17mm Wrench
- Two 7/16" Wrenches
- Jack Stands
- Utility Knife
- Wire Cutters
- Safety Glasses

1. Open the Parts Box and lay them out on a clean flat area (*Figure 2*).

Note: For assembly location, the part numbers in the following list can be referenced to the Parts List and illustrations in Chapter 6.

Parts Box (Figure 2):

	0		
Item	<u># Part #</u>	Description	Qty
		Bolt, HCS, 5/16-18 X 1-1/2, Gr5, ZP	
2	11238	Washer, Flat, 1/4" USS	12*
3	11076	Nut, Nylon Lock, 5/16-18, ZP	4
4	29054	Mount, Tow Hitch, Rear	1
5	29367	Dipstick	1
6	27610	Abrasion Resistant Sheathing, 15.5in	1
7	11214	Cable Tie, 7-1/2 Long	2
8	25616	Hyd Adapter jcm08-obm08-90	1
		Strap, Battery	
10**		Mount, Battery	1
11**	11149	Bolt, HCS, 1/4-20 X 1.00, GR5, ZP	2
12**	11073	Nut, Nylon Lock, 1/4-20, ZP	2
		Battery, 12V, 9AH	
		Pin, Hitch Clip, 5/16" - 3/8"	
15	25311	Pin, Cotter, 3/16" X 2.5"	2
16	25310	Nut, Slotted, 1-14, ZP	2
		Cap, Dust	
18	11075	Nut, Nylon Lock, 3/8-16, ZP	4
19	11241	Washer, Flat, 5/16 USS, ZP	4
		Clamp, 2 inch, Jack	
21	29378	U-bolt, 3/8-16 X 2 X 4, ZP	2



** Electric Start only.

Compare the contents of the Parts Box, Product Pack and Shipping Box with the "Parts Supplied" list above. If you have any questions please contact us at www.DRpower.com or call 1-800-DR-OWNER (376-9637) for assistance.

Assembly

We recommend two people when handling assemblies during the following procedures. The assemblies involved are heavy and could cause injury when lifting or if dropped.

- 1. Position the Beam at the center of the pallet and lay it on its side to remove the four sets of Bolts, Flat Washers and Locknuts where the Axle assembly attaches (*Figure 3*).
- Set the Beam assembly onto the Axle assembly and align the holes (*Figure* 4).
- 3. Insert the four Bolts, Flat Washers (outside of main Beam) and Locknuts and tighten with two 3/4" Wrenches.

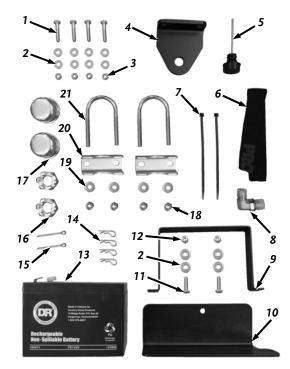


Figure 2

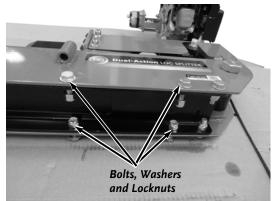


Figure 3

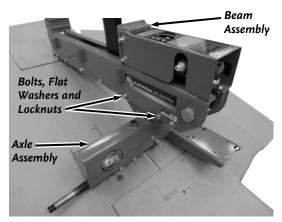






Figure 5

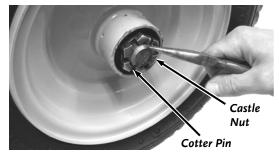


Figure 6



Figure 7

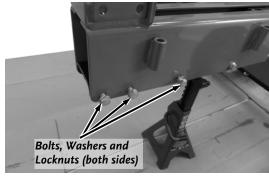
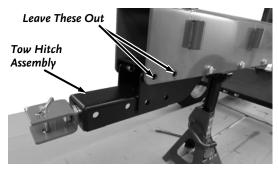


Figure 8



- 4. Place Jack Stands under the Axle assembly to allow room to install the Wheels.
- 5. Place a Wheel onto the Axle with the Valve Stem facing out and the loose Tapered Bearing on the outside (*Figure 5*).

Note: Make sure the rollers of the Tapered Bearing are facing in. The Hub and Bearing were greased at the factory. Do not remove the grease.

- 6. Install the Castle Nut onto the Axle Threads with a 1-1/2" Wrench until the Tapered Bearing is just pushing against the inside of the Wheel Hub but not too tight (*Figure 6*). There should be minimal amount of drag on the Wheel when rotated by hand.
- 7. Turn the Castle Nut back only as far as needed to align the closest slot in the Nut with the Hole in the Axle. Insert the Cotter Pin and bend the ends around with Pliers to secure the Nut. Check that the wheel will rotate freely and does not wobble on the axle.
- 8. Install the Dust Cap with a soft face Hammer (*Figure 7*).
- 9. Repeat steps 5 thru 8 for the second Wheel.
- 10. Use a Jack Stand to raise the front of the Splitter allowing room for installing the Tow Hitch and Jack.
- 11. Remove the six sets of hardware (three per side) that are installed at the front of the Beam assembly (*Figure 8*).
- Position the Tow Hitch and secure the right side with three sets of the Bolts, Lock Washers and Locknuts and one set on the left side using two 3/4" Wrenches (*Figure 9*).
- 13. Install the Jack, Spacers and U-Bolts with the lower Clamp and U-Bolt located between the two positioning rings of the Jack Housing (*Figure 10*).

Note: The Jack must be installed at a 45° angle for Handle clearance. Temporarily install a Tray as a guide for checking Handle clearance.

- 14. Secure the U-Bolts with Flat Washers and Locknuts using a 9/16" Wrench.
- 15. Remove the Jack Stand and roll the Splitter from the Pallet.

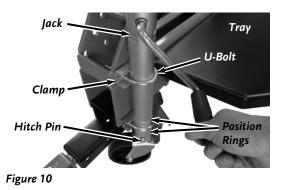


Figure 9

- **Note:** The Slots of the Engine Mount are for Gas Engine mounting and the round holes are for Electric Motor mounting.
- 16. Position the Engine onto the Bracket and align the Engine Base holes with the slots of the Bracket (*Figure 11*).
- 17. Electric Start only: Route the Harness down to the front left corner of the Engine and connect the green wire ground Terminal of the Harness to the Engine mounting flange with a Bolt, Flat Washers (top and bottom) and Locknut using two 1/2" Wrenches (*Figure 12*).
- Install the four sets of Bolts, Flat Washers (top and bottom) and Locknuts using two 1/2" Wrenches to secure the Engine to the Mount (remaining three sets for electric start).
- **Note:** Remove protective Caps as needed for the following Hydraulic Hose connections.
- 19. Install the Elbow Hydraulic Fitting into the Tank assembly by hand until it cannot be turned any more with your hand. If needed, turn the Elbow back to align it parallel with the ground and facing out (*Figure 13*).
- 20. Tighten the Elbow Jam Nut against the Tank with a 7/8" Wrench.
- 21. Use Wire Cutters to cut the Cable Ties holding the Hydraulic Hoses together.
- 22. Install the Fluid Suction Hose onto the Pump and Tank fittings using a 7/8" Wrench.4
- 23. Slide the Sheathing over one of the Pressure Hoses and secure it to the Hose with a Cable Tie near each end (*Figure 14*).
- **Note:** When installing the following Hose fittings they should be tight, but try not to over tighten. Start with a snug fit and if leaking is detected then tighten a bit more until no leaks are detected.
- 24. Install the Hose with Sheathing to the Control Valve (long elbow end) and Pump using a 7/8" Wrench.
- 25. Install the Fluid Return Hose (long elbow end) at the Control Valve and the top of the Tank using a 7/8" Wrench (*Figure 15*).

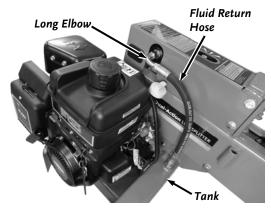
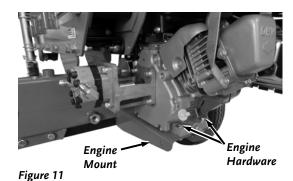


Figure 15



Hole Wire Harness

Figure 12

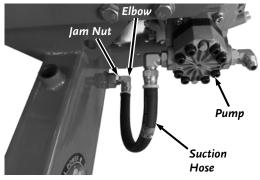


Figure 13

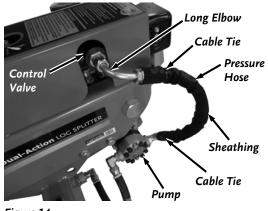


Figure 14

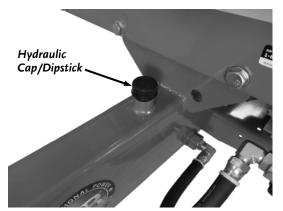


Figure 16

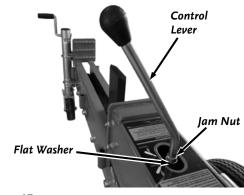


Figure 17

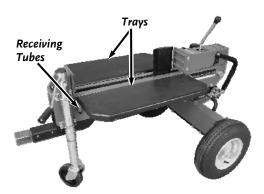


Figure 18

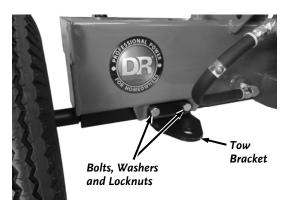
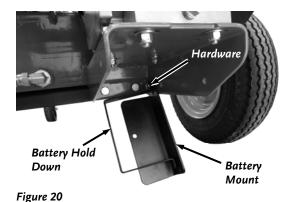
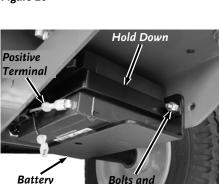


Figure 19

12 **DR**[®] DUAL-ACTION GAS LOG SPLITTER

- 26. Install Hydraulic Cap/Dipstick into the hole on top of the Tank (*Figure 16*).
- 27. Remove the Nut and Flat Washer from the Control Lever threads and reinstall the Nut all the way onto the threads (*Figure 17*).
- 28. Place the Washer onto the threads and screw the Control Lever into the top of the Control Valve as far as it will go. Turn it back to the desired position depending of your preference to split on the right or left side of the splitter. Tighten the Jam Nut against the Valve to secure the Lever using a 17mm Wrench.
- 29. Install the Trays onto the sides of the Beam assembly by aligning the legs with the receiving tubes and secure with the Hitch Clips (*Figure 18*).
- 30. Remove the two left side Bolts, Flat Washers and Locknuts from the Tank and Axle using two 3/4" Wrenches. Position the Tow Bracket and secure with the hardware you just removed (*Figure 19*).
- 31. Raise the Jack so the Wood Splitter is parallel with the ground.
- 32. **The following steps are for Electric Start only:** Position the Battery Mount and Hold down under the Engine and install a Bolt, Washer (each side) and Locknut closest to the axle by hand (*Figure 20*).
- 33. Place the battery into the Hold Down with the Terminals facing to the rear of the Splitter.
- Rotate the Mount and Battery into position and install the second mounting Bolt, Washer (each side) and Locknut. Tighten both sets of Hardware using two 7/16" Wrenches (*Figure 21*).
- 35. Install the red positive Terminal to the Battery. Do not install the Negative Terminal at this time.





Locknuts



Mount

Adding Oil and Gasoline

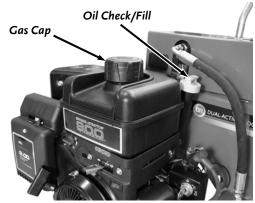
Engine Oil	Refer to Engine Manufacturers User Manual for Engine Oil type and quantity
Fuel	Unleaded gasoline

NOTE: Use only the recommended High Detergent Engine Oil. Other types of oil could cause problems operating your machine. Please refer to your Engine Owner's Manual for detailed oil information.

NOTICE

The Frame and Engine must be level to get an accurate reading when adjusting the oil level. Use the Jack to adjust the height of the Log Splitter to level the Frame.

- Position the machine so the Frame and Engine are level. Remove the Oil Fill/Dipstick (*Figure 22*) and clean the end of it with a rag.
- 2. Machines are shipped with no oil. Initially add 16 oz. of the oil recommended by the Engine Manufacturer. Wait one minute for the oil to settle.
- 3. Replace the Dipstick, and screw it in to ensure an accurate reading and then remove it to check the oil level (clean the Dipstick with the rag after checking).
- 4. Continue adding a few ounces of oil at a time, rechecking the Dipstick until the oil reaches the fill mark. Be careful not to overfill.
- 5. Replace the Dipstick and screw all the way down when full.
- 6. Remove the Gas Fill Cap and fill the Gas Tank with fresh, unleaded gas (with a minimum of 85 Octane) to approximately 1" to 1-1/2" below the top of the fill neck to allow for fuel expansion. Be careful not to overfill and reinstall the Gas Fill Cap before starting the engine. See your Engine Owner's Manual for more detailed information.
- **NOTE:** To refill the Gas Tank, turn the engine OFF and let the engine cool at least five minutes before removing the Gas Fill Cap.





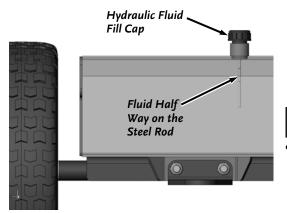


Figure 23



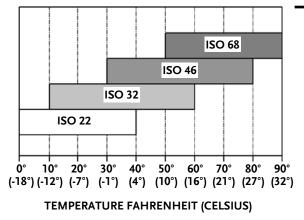


Table-1

Adding Hydraulic Fluid

Tools and Supplies Needed:

- Paper Towels
- Hydraulic Fluid (see table-1)

NOTICE

- You must add hydraulic fluid before using the splitter. This machine is shipped without hydraulic fluid in the hydraulic tank. When performing the following procedures, fill the hydraulic tank slowly, checking the level frequently to avoid overfilling.
- To get an accurate reading when checking the hydraulic fluid level: - the machine should be on a level surface.
 - the dipstick should be pushed in fully to ensure an accurate fluid level reading.

TIP: Check the Fluid level by removing the Hydraulic Fluid Filler Cap and wiping the steel rod of the Dipstick with a Paper Towel. Reinsert the Cap fully (*Figure 23*). Remove the Cap and lay the Steel Rod onto a dry Paper Towel and read the level by the wet mark that is transferred from the Steel Rod to the Paper Towel.

7. Remove the Hydraulic Fluid Fill Cap Dipstick and fill the Hydraulic Tank with the recommended fluid (*see table-1*).

NOTE: The Tank is full when the fluid level is within the recommended level on the Dipstick. The recommended level is in the middle of the two marks on the Steel Rod. Do not deviate past the marks up or down from that point. If the fluid level is not within this range, fluid must be added or removed to bring it within that range.

NOTE: The operator should initially only need to add about 5 quarts before checking the level because some fluid has already been added to the Cylinders.

- 8. Start the Engine and cycle the cylinder several times (see "Operating Your DR Dual-Action Log Splitter", Chapter 3).
- 9. Retract the Cylinder, shut off the Engine and recheck Fluid level.

10. Adjust level as needed.

Check the Tire Pressure

Tools Needed:

- Tire Pressure Gauge
- Air Compressor

🛕 WARNING

Do not over inflate the tires. Inflate to the manufacturers recommended pressure found on the tires.

- 1. Remove the Valve Stem Protective Cap (*Figure 24*) and check the Tire pressure with a Tire Pressure Gauge.
- 2. Check what the manufacturers recommended pressure is that is stamped on the side of the Tire.
- 3. If the pressure is too low, add air through the Valve Stem with an air hose.
- 4. Replace the Valve Stem Protective Cap when finished.

Connecting the Battery (electric start models)

1. Connect the Black Negative Terminal onto the negative Battery Lug (*Figure* **25**).





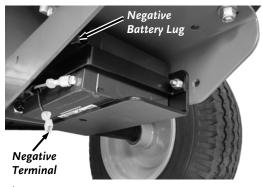


Figure 25

It may be helpful to better familiarize yourself with the features of your Log Splitter by reviewing Figure 1 in Chapter 2 before beginning the steps outlined in this chapter.

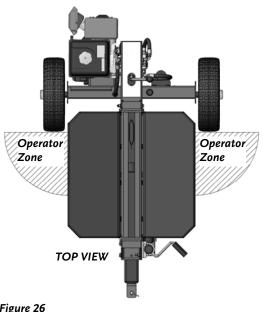


Figure 26

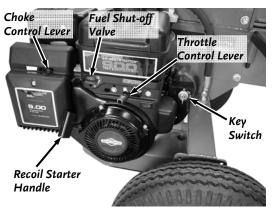


Figure 27

WARNING

- Read and understand all instructions, safety precautions, and/or warnings listed in "Chapter 1 General Safety Rules" before operating this DR Dual-action gas log splitter. If any doubt or question arises about the correct or safe method of performing anything found in this manual, please contact our Customer Service Representatives at our toll free number: 1-800-DR-OWNER (376-9637).
- When operating the Log Splitter, make sure you are standing in the safe operating area (OPERATOR ZONE) (Figure 26). 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.
- Before loading and operating the Log Splitter, always wear protective gear, INCLUDING safety goggles, hearing protection, tight-fitting gloves without draw strings or loose cuffs, and steel-toed shoes.
- Use the following photos for the correct and incorrect methods of splitting logs. Never split a log using an incorrect or unsafe method.

Starting

- 1. Position your Log Splitter on flat, dry ground and block the two back Wheels and the Jack Wheel to prevent it from moving.
- 2. Make sure the Fuel Shut-Off Valve is in the "ON" position (Figure 27).
- 3. Move the Choke Control Lever to the "CHOKE" position (should only be needed if the Engine is cold).
- 4. Move the Throttle Control Lever to the fast (rabbit) position.
- 5. Manual Start: Turn the Ignition Switch to the "On" position. Grasp the Recoil Starter Handle and slowly pull until you feel resistance. Let the Cord retract a little bit then pull the Cord rapidly to start the Engine. One or two pulls usually starts the Engine.

Electric Start: Turn and hold the Key in the start position until Engine starts then let the Key return to run position.

- Move the Choke Control Lever (if used for cold engine) back to the "RUN" position when the Engine is running well.
- 7. 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 for splitting.

Stopping

- 1. Move the Throttle Lever to Idle.
- 2. Manual Start: Turn the Ignition Switch to the "Off" position (Figure 27).
- 3. Electric Start: Turn the Key to the Off position.

Splitting

Note: All logs should be no longer than 20".

- 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 (*Figure 28*).
- 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.

CAUTION

- Never attempt to split wood across the grain. The Log Splitter was not designed for cross-grain splitting. Doing so could damage the Log Splitter and may cause personal injury (*Figure 29*).
- 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 (*Figure 30*)

NOTICE

Never run the Log Splitter unless the hydraulic fluid tank is at the proper level.

- Place the log on the Log Splitter. Grasp the log on the sides near the middle of the block (*Figure 31*). Center the log, side-to-side, on the rail of the Log Splitter, making sure that one end is against the Stop Base.
- 2. Using only your hand, push the Valve Control Handle forward (towards the log) (*Figure 32*). If the log moves before it is contacted by the Wedge, release the Valve Control Handle and then reposition the log.

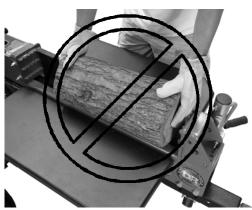


Figure 28



Figure 29

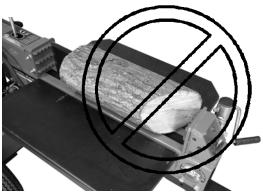


Figure 30

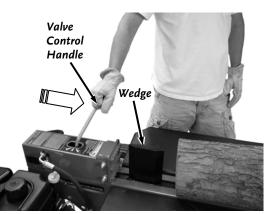
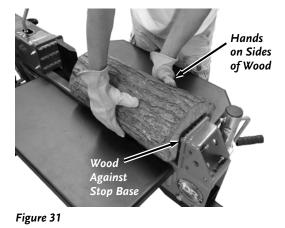


Figure 32



CONTACT US AT www.DRpower.com 17

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. Try repositioning the log on the splitter or set the log aside.

- 3. Hold the Valve Control Handle, moving the Wedge towards the Log 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 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 Tray.
- 4. Once the Wedge reaches its full forward travel, let go of the Valve Control Handle and the Wedge will stay at that position.
- 5. Load another log on the other side of the Wedge and pull the Valve Control Handle, moving the Wedge towards you and the Log until the log is split or the cylinder rod stops at its maximum travel position.

Depending on the type of wood being split, a log may not always split into two pieces and fall onto the trays. If a log sticks to the wedge, move the Wedge away from the Base, stop the engine, and carefully remove the log from the wedge. If the Log is stuck onto the Wedge and you can't remove it by hand, a piece of wood cut into a wedge shape can be used between the Log and Base to lift the Log from the machine as you actuate the Lever.

Splitting Large Logs

When splitting a large log, or one in which the wood is extremely tough or stringy (such as elm), the first pass through the Splitter may not split the log into two sections. If this happens, turn the log and split off small sections. Repeat this process as necessary to split the entire log.

Chapter 4: Maintaining The DR DUAL-ACTION GAS LOG SPLITTER

Regular maintenance is the way to ensure the best performance and long life of your machine. Please refer to this manual and the engine manufacturer's owner's manual for maintenance procedures. Service intervals listed in the checklist below supersede those listed in the engine manufacturer's owner's manual.

Before performing any maintenance procedure or inspection, stop the engine, wait five (5) minutes to allow all parts to cool. Disconnect the spark plug wire, keeping it away from the spark plug. Disconnect the Battery Terminals (Electric start only).

Regular Maintenance Checklist

Procedure	BEFORE EACH USE	Every 25 Hours	Every 100 Hours
Check Engine Oil Level			
Check the general condition of the Log Splitter (e.g. nuts, bolts, welds, etc).			
Check the Wedge for smooth travel and sharpness	▲		
Check the Hydraulic Fluid level (See "Adding Hydraulic Fluid" in Chapter 2)			
Check Tire Pressure	Before towing	A	
Clean Engine Exterior and Cooling Fins			
Change Engine Oil	1 st time 5 hours		
Replace Air Filter			
Change Hydraulic Fluid		1 st Time 25 Hours	
Replace Spark Plug			

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.

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 DR Power Equipments authorized parts and components specified in the "Parts" section (Chapter 7) of this manual. Replacement parts from secondary suppliers (not original DR Power Equipments replacement parts) can lead to product damage and/or personal injury, and will void the warranty.

A CAUTION

Do not remove the cap from the hydraulic tank or reservoir while the Log Splitter is running. Hot fluid, 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 the 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 manufacturer's manual for engine maintenance, repair and storage.

Hydraulic Fluid Change

Tools and Supplies Needed:

- Adjustable Wrench
- Clean Rags
- Approved Container (8 quart capacity)
- Small funnel

NOTICE

Never run the Log Splitter unless the hydraulic fluid tank is at the proper level.

Hydraulic Fluid Specifications

See Table-1 on page 10.

1. Drain the hydraulic tank.

- a. Place an approved Container under the Inlet Hose.
- b. Disconnect the Inlet Hose at the Pump Elbow using an Adjustable Wrench and lower the Hose to drain the Fluid into the Container (*Figure 33*).
- c. Remove the Hydraulic Fluid Dipstick to let air in to improve fluid flow.
- d. Completely drain the Tank.
- e. Disconnect the Inlet Hose at the Tank Elbow using an Adjustable Wrench.
- f. Remove the Screen (with elbow) from the Tank with an Adjustable Wrench and clean any debris from the Screen or replace as needed (*Figure 34*).
- g. Reinstall the Screen (with elbow).
- h. Reconnect the Inlet Hose at the Tank Elbow using an Adjustable Wrench.
- i. Reconnect the Inlet Hose at the Pump Elbow using an Adjustable Wrench.

2. Refill the hydraulic tank.

- a. Remove the Hydraulic Fluid Dipstick from the Hydraulic Tank (*Figure 33*).
- b. Fill the Hydraulic Tank as described in the "Adding Hydraulic Fluid" section in Chapter 2.

3. Start the engine and cycle the cylinder.

- a. Replace the Spark Plug and Spark Plug Wire.
- b. Start the engine and cycle the Cylinder several times (see "Operating Your Log Splitter", Chapter 3).
- c. Retract the Cylinder and shut off the engine.
- d. Recheck the Hydraulic Tank to make sure fluid is up to the proper level.

Hydraulic Fluid Capacities

Hydraulic Tank 6 quarts (5.6 liters)

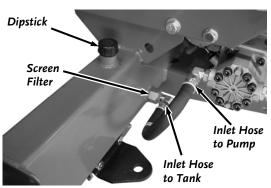
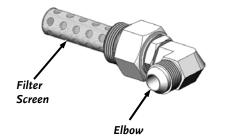


Figure 33



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Figure 34
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Figure 35

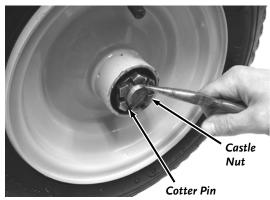


Figure 36



Figure 37

Replacing the Wheels

Tools and Supplies needed:

- Channel lock Pliers
- Clean Rags
- Adjustable Wrench
- Needle Nose Pliers
- Jack and Jack Stands
- Soft FaceHammer
- 1. Jack the Splitter off the ground and secure with Jack Stands.
- 2. Remove the Dust Cap from the Wheel Assembly with Channel Lock Pliers (*Figure 35*).
- 3. Straighten the ends of the Cotter Pin with Needle Nose Pliers so the Cotter Pin can be pulled from the hole in the Axle (*Figure 36*).
- 4. Remove the Castle Nut with the Channel Lock Pliers.
- 5. Pull the Wheel assembly and Taper Bearing from The Axle (*Figure 37*).
- 6. Slide a Wheel Assembly onto the Axle Shaft. Make sure the open side of the Wheel Hub with the loose Taper Bearing is facing towards you.
- 7. Screw the Castle Nut onto the Axle and tighten it with an Adjustable Wrench to seat the Bearings (*Figure 36*).
- 8. Back the Castle Nut off and then snug it up to the Bearing lightly.
- 9. Insert a Cotter Pin through the slots of the Castle Nut and into the hole in the Axle.
- 10. Bend the ends of the Cotter Pin with Needle Nose Pliers to secure it.
- 11. Place the Dust Cap onto the Wheel Assembly Hub and work it into the Hub using a soft face Hammer (*Figure 35*).
- 12. Jack the back of the Splitter up and remove the Jack Stands.
- 13. Lower the Splitter to the ground.

Battery Care (electric start models)

Proper care can extend the life of a Battery. Follow these recommendations to ensure your Battery's best performance and long Battery life:

NOTICE

When you are finished charging the battery, disconnect the charger from the outlet first, then disconnect the battery charger wires from the battery. If you leave the battery charger wires connected to the battery, the battery will discharge itself back into the charger.

- Do not allow the Battery charge to get too low. If the machine is not used, charge the Battery every 4 6 weeks. Operate the engine for at least 45 minutes to maintain proper Battery charge.
- Store an unused Battery in a dry environment with temperatures between +40°F (+5°C) and +95°F (+35°C). Make sure the storage temperatures will never be outside of these limits. The lower the storage temperature is within the specified temperature, the better as the Battery will discharge more slowly at low temperatures.
- Do not charge an already charged Battery. In theory, you cannot overcharge our Battery with a Trickle Charger; however, when a Battery is fully charged and the Charger is still on, it generates heat that could be harmful to the Battery. A fully charged Battery will read 12V-13.2V with a Voltmeter.
- Do not continue to crank your Engine when the Battery charge is low.

Charging the Battery

Operate the Engine for at least 45 minutes to maintain proper Battery charge. If the Battery loses its charge, you will need to use a Trickle Charger (like the DR Battery Charger) to recharge it. The Charger should have an output of 12 volts DC at no more than 2 amps.

- At 1 amp the Battery may need to be charged for as long as 48 hours.
- At 2 amps, the Battery may need to be charged for as long as 24 hours.

NOTE: Using the Recoil Starter and then running the Engine will not recharge a dead or significantly discharged Battery.

To connect a Battery Charger to your DR DUAL-ACTION GAS LOG SPLITTER, follow the steps listed below.

- 1. Attach the Black (-) alligator clipped wire from the Charger Adapter to the Negative (-) terminal of the Battery, then attach the Red (+) alligator clipped wire to the Positive (+) Battery terminal.
- 2. Plug the Charger into a standard wall outlet.
 - Typically, the Battery takes between 6 and 8 hours to fully charge. Do not leave the charger on the Battery longer than 24 hours for a 2 amp charger, or 48 hours for a 1 amp charger as you could potentially damage the Battery.
 - You can charge the Battery many times. The Battery lasts longer if you charge it before it is fully drained. Keep it fully charged and at room temperature when not using your DR DUAL-ACTION GAS LOG SPLITTER.
 - If the Battery does not hold its charge for very long under normal conditions or it simply won't hold a charge, then replace it. You can purchase replacement Batteries directly from us. To install your new Battery, follow the directions below.

Replacing the Battery

Tools Needed:

- Two 7/16" Wrenches
- 1. Disconnect the Battery Terminals (*Figure 38*).
- Remove the Bolts and Locknuts that secure the Battery Clamp using two 7/16" Wrenches.
- 3. Remove the Clamp, Bracket and the dead Battery.
- 4. Position the new Battery onto the Bracket.
- 5. Install the Battery Clamp and secure with the Bolts and Locknuts using two 7/16" Wrenches.
- 6. Attach the Battery Terminals. Black Wire to negative black Terminal and Red Wire to positive red Terminal.

Disposing of the Battery Responsibly

The Battery is a sealed lead-acid Battery. Recycle or dispose of it in an environmentally sound way.

- Do not dispose of a Lead-Acid Battery in a fire; the Battery may explode or leak.
- Do not dispose of a Lead-Acid Battery in your regular, household trash. Law in most areas prohibits incinerating, disposing in a landfill, or mixing a sealed Lead-Acid Battery with household trash.

Recycling a Used Battery

Please dispose of your used Batteries responsibly by recycling them. Call your local Solid Waste Management District or your local waste handler to locate the collection site nearest you. Some collection sites recycle Batteries year-round; others collect them periodically.

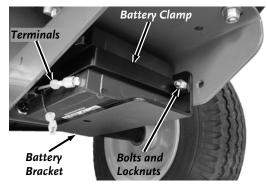
You can also visit the Web site of Earth 911 for more information [www.earth911.org]. Once there, click the Municipal HHW link under Hazardous Household Waste, and enter your zip code. The site lists recycling centers located near you.

For a fee, you can recycle your Batteries with the International Metals Reclamation Company. Visit them at www.inmetco.com and click Services; or contact them at:

INMETCO, One INMETCO Drive, Ellwood City, PA 16117, (724) 758-2800; fax (724) 758-2845

To learn more about hazardous waste recycling, visit the Web site for Battery Council International [www.batterycouncil.org] or for the Environmental Protection Agency [www.epa.gov].

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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 maintenance procedure or inspection, stop the engine, wait five (5) minutes to allow all parts to cool. Disconnect the spark plug wire, keeping it away from the spark plug.

Troubleshooting Table

Symptom	Possible Cause
With Engine running	\Rightarrow Air in the system; Bleed any accumulated air from the hydraulic system.
and the valve control	\Rightarrow The Log Splitter may not be on a level surface.
handle is pushed, the wedge does not move or	\Rightarrow The hydraulic fluid may be low. Check and adjust the level as required.
is slow to respond.	⇒ In extreme high temperature and heavy rapid use, the hydraulic fluid may have overheated. Allow the machine to cool.
	\Rightarrow The wood you are splitting may be too hard, it has knots, or its fiber is very tough.
	⇒ Check the high-pressure hose, fittings, and valve openings for dirt and debris that may have obstructed the openings.
	⇒ If the Wedge will still not move or is slow to respond, 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.
The engine won't start. (Please refer to the	\Rightarrow Check that the Fuel Shut-Off Valve is turned ON (See "Operating your WOOD SPLITTER", Chapter 3).
engine owner's manual for engine-specific	⇒ Are you using fresh, clean gas? If the gas is old, change it. Use a fuel stabilizer if you keep gas longer than 30 days.
procedures.)	⇒ Is the spark plug clean? If the spark plug is dirty or cracked, change it. If it's oily, leave it out, hold a rag over the plug hole and pull the recoil cord several times to blow out any oil in the cylinder, then wipe off the plug and reinsert it.
	\Rightarrow If your engine still won't start, contact us at www.DRpower.com for assistance.
The engine lacks power	\Rightarrow Check that the Throttle Lever is in the fast (rabbit) position.
or is not running smoothly.	⇒ Is the air filter clean? If it's dirty, change it following the procedure in the engine manufacturer's owner's manual.
(Please refer to the engine owner's manual	⇒ Is the spark plug clean? If it's fouled or cracked, change it. If it's oily, leave it out, hold a rag over the plug hole and pull your recoil cord several times to blow out any oil in the cylinder, then wipe off the plug and reinsert it.
for engine-specific procedures.)	⇒ Are you using fresh, clean unleaded gas? If it's old, change it. Use a fuel stabilizer if you keep gas longer than 30 days.
	⇒ Does your engine have the right amount of clean oil? If it's dirty, change it following the procedure in the engine manufacturer's owner's manual.
	\Rightarrow Check the oil level and adjust as needed.
	\Rightarrow If your engine still lacks power, contact us at www.DRpower.com for assistance.
Engine smokes.	\Rightarrow Check the oil level and adjust as needed.
(Please refer to the	\Rightarrow Check the air filter and clean or replace if needed.
engine owner's manual for engine-specific	⇒ You may be using the wrong oil—too light for the temperature. Refer to your Engine Owner's Manual for detailed information.
procedures.)	\Rightarrow Clean the cooling fins if they're dirty.
	\Rightarrow If the engine still smokes, contact us at www.DRpower.com for assistance.

Troubleshooting Table (Continued)

Before performing any maintenance procedure or inspection, stop the engine, wait five (5) minutes to allow all parts to cool. Disconnect the spark plug wire, keeping it away from the spark plug.

S үмртом	POSSIBLE CAUSE
The engine stalls when the wedge engages the wood.	\Rightarrow The engine may not be properly adjusted. Contact us at www.DRpower.com for assistance.
Hydraulic fluid squirts from the fill plug during operation.	 ⇒ The hydraulic fluid tank may be over-filled. Drain fluid down to the proper level. ⇒ The LOG SPLITTER is not level. Make sure the LOG SPLITTER is on level ground.

Chapter 6: DR DUAL-ACTION GAS LOG SPLITTER Road Towable Kit

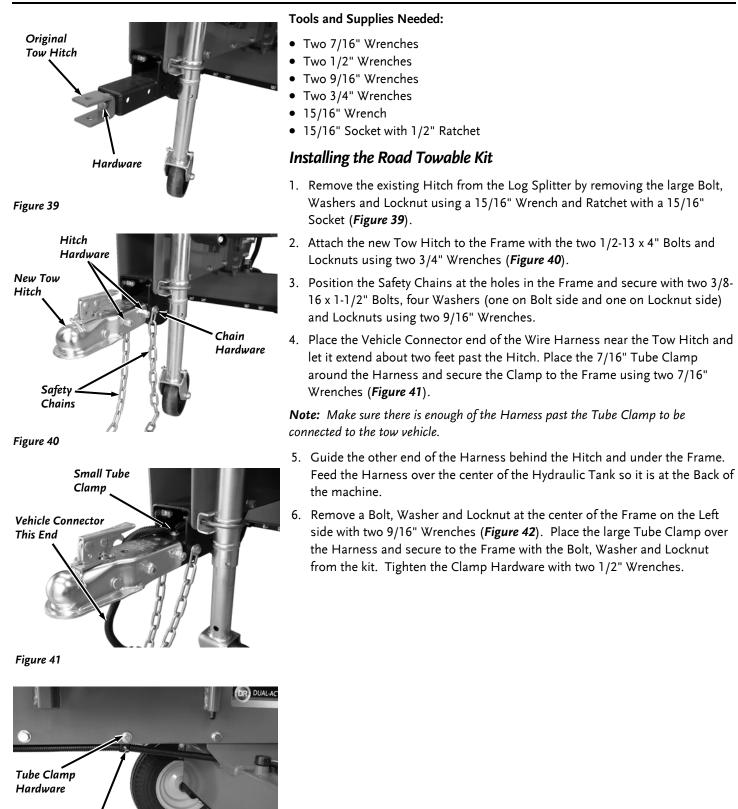


Figure 42

26 **DR**[®] DUAL-ACTION GAS LOG SPLITTER

Hose Clamp

- 7. Assemble the Fenders to the Frame with eight 5/16-18 x 3/4" Carriage Bolts (fender side) and Locknuts using a 1/2" Wrench (*Figure 43*).
- Position the roadside Tail Light (yellow/brown wires) and curbside Tail Light (green/brown wires) onto the Fenders and secure with one of the 1/4-20 Locknuts on the outside stud using a 7/16" Wrench.
- 9. Route the Yellow/Brown Wire Connector with a White Ground Wire behind the Tank on the roadside (left side) of the Log Splitter.
- 10. Plug in the Connector, place the Ground Wire onto the inner Stud and secure it with a 1/4-20 Locknut using a 7/16" Wrench (*Figure 44*).
- 11. Route the Green/Brown Wire Connector with a White Ground Wire behind the Tank on the curbside (right side) of the Log Splitter.
- 12. Plug in the Connector, place the Ground Wire onto the inner Stud and secure it with a 1/4-20 Locknut using a 7/16" Wrench.
- 13. Use the Cable Ties to secure the excess Harness to the Engine Mount hole. Secure the center portion of Harness to the two holes in the Frame. Trim all Cable Ties with Wire Cutters.



Figure 43

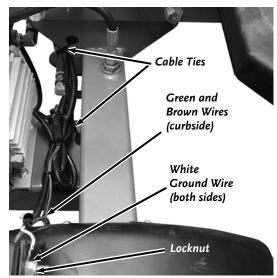


Figure 44

Attaching to Tow Vehicle

Making sure the 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. ALWAYS use accessory lights and devices when transporting on a road or highway to warn operators of other vehicles. Check your local government regulations.

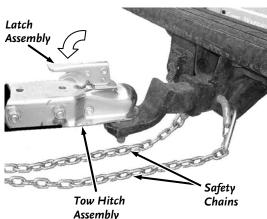


Figure 45

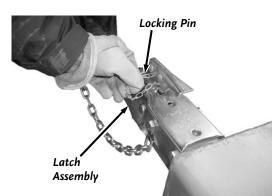


Figure 46

unclamp from the Ball.

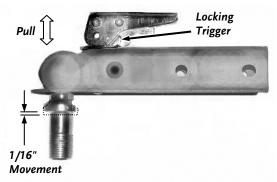


Figure 47

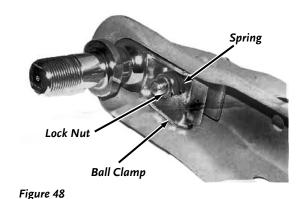
- Close the Latch Assembly on the Tow Hitch Assembly to lock the Tow Hitch Assembly onto the Tow Ball (*Figure 45*). Attach the towing Safety Chains to the Tow Vehicle ensuring there is enough slack for turning.
- 2. Make sure the Hitch Coupler is properly and securely attached to the Tow Ball.
- 3. Insert the Locking Pin into the hole of the Latch Assembly to lock it in the closed position (*Figure 46*).
- 4. For extra safety and security, you may want to purchase a Lock to install into the hole of the Latch Assembly.
- 5. Plug the Harness Connector to the Tow Vehicle.

Hitch Coupler Adjustment Check

- Place a 2" Ball in the Socket of the Coupler and close the Latch Assembly (*Figure 47*). Verify that the Locking Trigger is properly engaged in its detent.
- Pull on the Ball and/or Coupler, trying to remove the Ball from the Socket. If the Ball moves more than 1/16" in the Coupler's Socket, the Clamp requires adjustment. Follow the proper adjustment procedure in the following steps.

Hitch Coupler Adjustment

- 1. With the proper size Ball in the Socket of the Hitch Coupler, close the Latch of the Coupler completely *(Figure 48)*. Verify that the Locking Trigger is properly engaged in its detent.
- 2. Tighten the Locknut on the underside of the Coupler until the Spring between the Nut and the Clamp is fully compressed. Then back off the Locknut 1/2 turn or just enough that the Latch is able to Clamp and

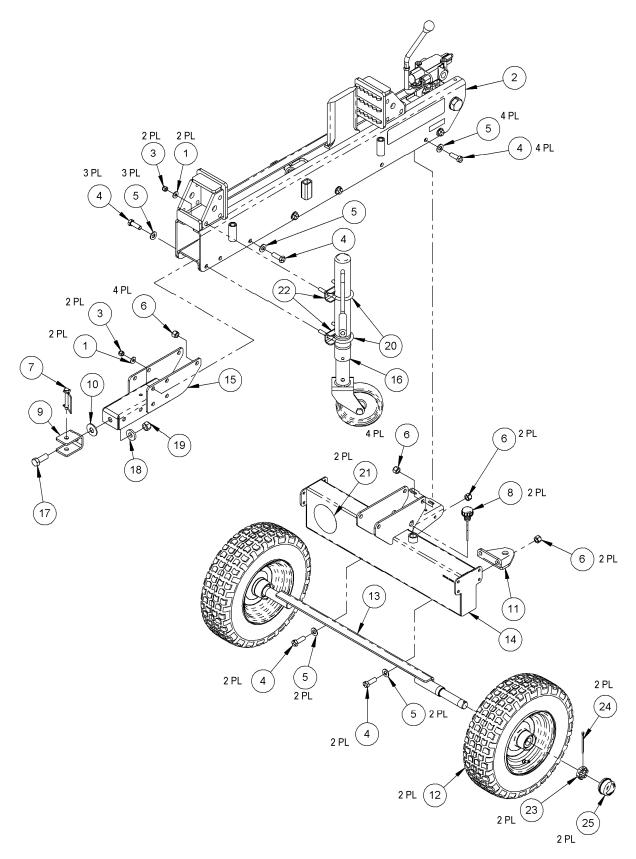




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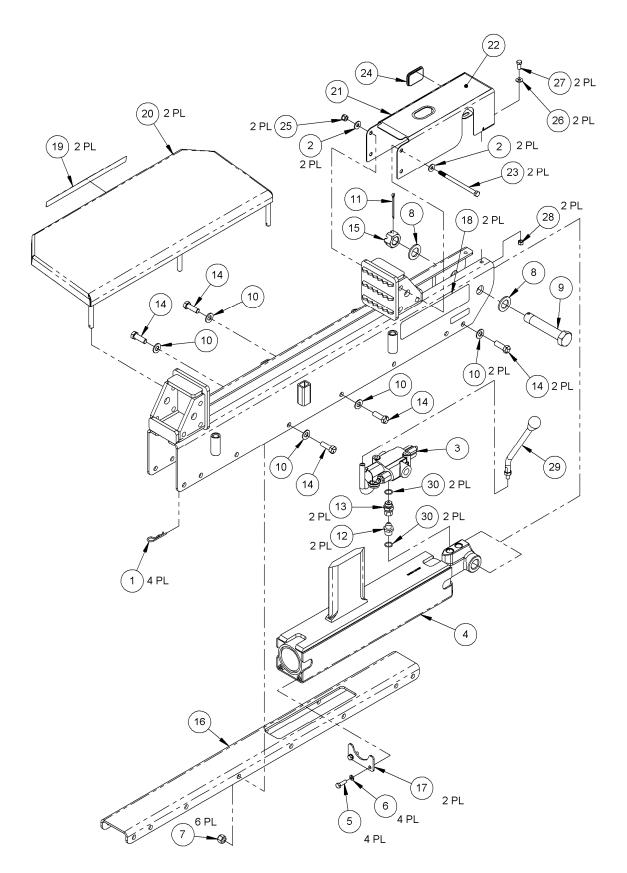
Parts List - FRAME ASSEMBLY

Ref#	Part#	Description	Ref#	Part#	Description
1	11241	Washer, Flat, 5/16", USS	14	29386	Reservoir, With Labels
2	29387	Beam Assembly, With Labels	15	29053	Mount, Hitch, Tow
3	11075	Nut, Nylon Lock, 3/8-16	16	29382	Jack, Trailer, Wheeled
4	22909	Bolt, HHCS, 1/2-13 X 1.5" Gr5, ZP	17	19296	Bolt, HCS, 5/8-11 X 1.75", Gr5, ZP
5	23499	Washer, SAE Flat, 1/2", ZP	18	10174	Washer, .640" ID X 1.5" OD X .25"
6	11072	Nut, Nylon Lock, 1/2-13	19	10131	Nut, Nylon Lock, 5/8-11
7	21155	Pin, Snap Safety, 3/8" X 2.75"	20	29378	Ubolt, 3/8-16 X 2" X 4", ZP
8	29367	Dipstick	21	19202	Label, DR Logo, 4.0", 4 Color
9	19295	Clevis, Hitch	22	29377	Clamp, 2", Jack
10	15745	Washer, Flat, 5/8", USS	23	25310	Nut, Slotted, 1-14, ZP
11	29054	Mount, Tow Hitch, Rear	24	25311	Pin, Cotter, 3/16" X 2.5"
12	25297	Wheel and Tire Assembly, W/ Dust cap	25	25318	Dust cap
13	29045	Axle			-



Parts List – BEAM ASSEMBLY

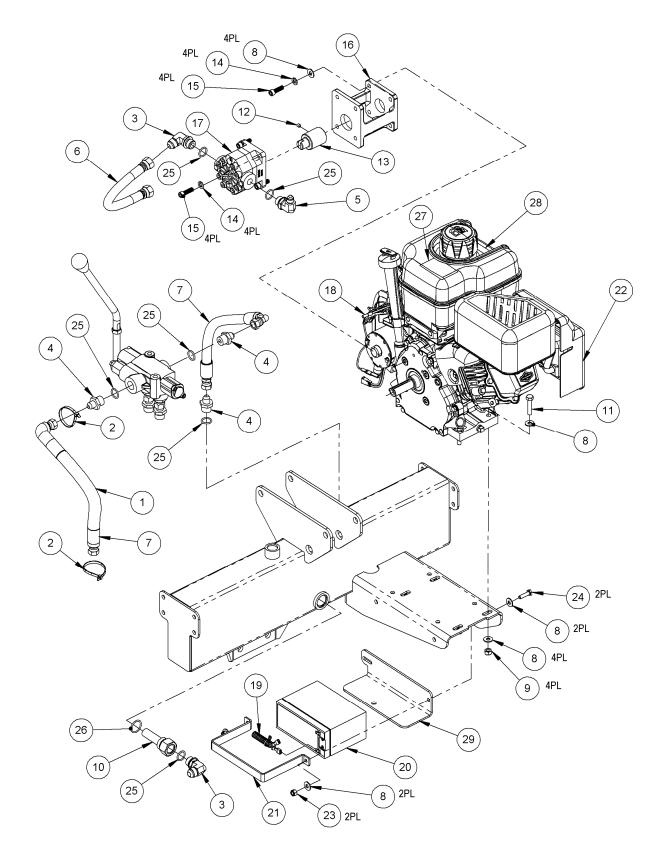
Ref#	Part#	Description	Ref#	Part#	Description
1	16003	Pin, Hitch Clip, 1/2" To 9/16", .12" Wire	16	29046	Brace, Lower Cylinder
2	11241	Washer, Flat, 5/16", USS	17	29370	Guard, Seal
3	29047	Valve, Hyd, 3200 Psi	18	29519	Label, DR Branding
4	29043	Cylinder Assembly, Hydraulic	19	29395	Label, Warning, Do Not Sit or Stand
5	11158	Bolt, HCS, 5/16-18 X 1"	20	29389	Tray, Log, With Labels
6	11243	Washer, Lock, Split, 5/16"	21	29388	Cover, Valve, With Label
7	11072	Nut, Nylon Lock, 1/2-13	22	29394	Label, Controls
8	29502	Washer, 26mm X 44mm X 3.5mm	23	29373	Bolt, HCS, 3/8-16 X 5.5", Gr5, ZP
9	29375	Bolt, HHCS, 1-14 X 6", Gr5, ZP	24	15131	Plug, Hour Meter Hole, 2" X 1-1/4"
10	23499	Washer, SAE Flat, 1/2", ZP	25	11075	Nut, Nylon Lock, 3/8-16
11	25311	Pin, Cotter, 3/16 X 2.5"	26	11238	Washer, Flat, 1/4", USS
12	25346	Hyd Adapter, Jcm06-Obm08	27	12321	Bolt, HCS, 5/16-18 X .75"
13	29371	Hyd Adapter, Obm08-Jcsf06	28	11076	Nut, Nylon Lock, 5/16-18
14	22909	Bolt, HHCS, 1/2-13 X 1.5", Gr5, ZP	29	29513	Handle Assembly, Control Valve
15	25310	Nut, Slotted, 1-14, ZP	30	29503	O-ring, 22mm X 2.4mm



Parts List – ENGINE AND PUMP ASSEMBLY

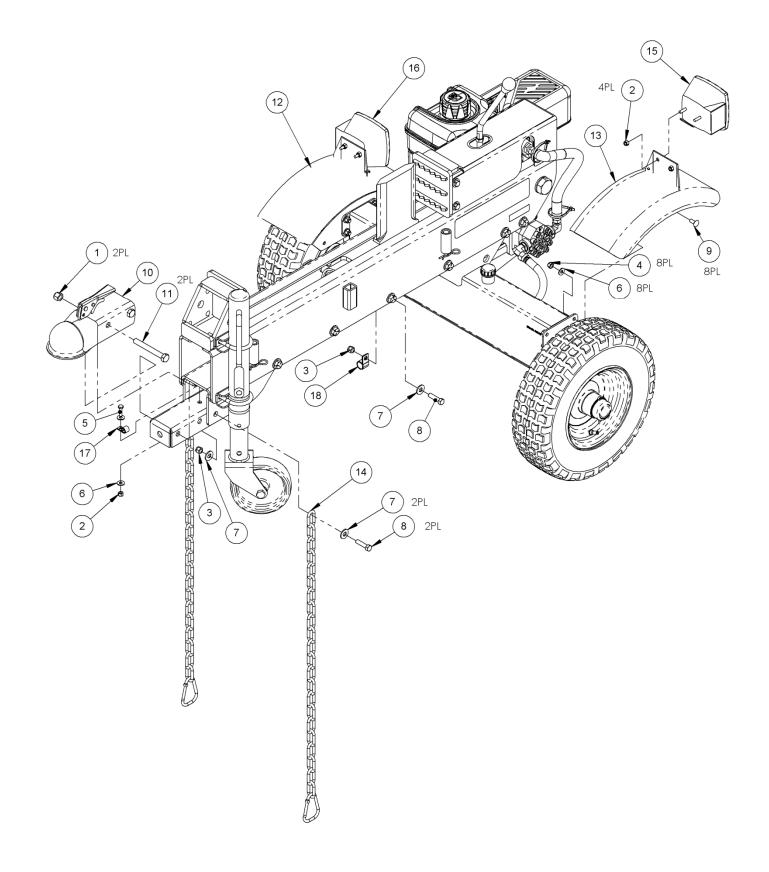
Ref#	Part#	Description	Ref#	Part#	Description
1	27610	Sheathing, Abrasion Resistant, 15.5"	16	29048	Mount, Pump, Hyd
2	11214	Tie, Cable, 7 1/2"L	17	29049	Pump, Hyd, 10L/Min
3	25616	Hyd Adapter, Jcm08-Obm08-90	18	27627	Wire Jumper, B&S, ES Charging Wire
4	25346	Hyd Adapter, Jcm06-Obm08	19	29507	Harness, Wire
5	25348	Hyd Adapter, Jcm06-Obm08-90	20	13447	Battery, 12V, 9Ah
6	25333	Hose Assembly, Hyd, Tank-Pump, 12.5"	21	24230	Hold Down, Battery
7	29364	Hose, Hyd, 15"	22	29397	Engine, Briggs, 900series, ES, With
8	11238	Washer, Flat, 1/4", USS			Labels
9	11076	Nut, Nylon Lock, 5/16-18	23	11073	Nut, Nylon Lock, 1/4-20
10	29512	Filter, Hyd, In tank	24	11149	Bolt, HCS, 1/4-20 X 1.00", Gr5, ZP
11	13443	Bolt, 5/16-18 X 1.5"	25	29503	O-ring, 22mm X 2.4mm
12	11168	Set Screw, 1/4-20 X 1/4", Cup Point	26	29511	O-ring, 28.5mm X 2.4mm
13	29055	Coupling, Pump, Hyd, Gas	27	18887	Label, Hot Surface, R/C
14	11243	Washer, Lock, Split, 5/16"	28	12781	Label, Warning, Add Oil
15	27625	Bolt, SHCS, 5/16-24 X 1", ZP	29	29365	Mount, Battery

Schematic – ENGINE AND PUMP ASSEMBLY



Parts List – ROAD-TOW ACCESSORY

Ref#	Part#	Description	Ref#	Part#	Description
1	11072	Nut, Nylon Lock, 1/2-13	11	24666	Bolt, HHCS, 1/2-13 X 4", Gr8
2	11073	Nut, Nylon Lock, 1/4-20	12	25305	Fender, Curbside
3	11075	Nut, Nylon Lock, 3/8-16	13	25308	Fender, Roadside
4	11076	Nut, Nylon Lock, 5/16-18	14	25312	Chain, Safety, Pair, 36"
5	11149	Bolt, HCS, 1/4-20 X 1.00", Gr5, ZP	15	25351	Tail Light, Roadside
6	11238	Washer, Flat, 1/4", USS	16	25352	Tail Light, Curbside
7	11239	Washer, Flat, 3/8, USS	17	28320	Tube Clamp, 7/16", Vinyl Coated
8	11985	Bolt, HCS, 3/8-16 X 1.5"	18	29379	Tube Clamp, 3/4", Vinyl Coated
9	14529	Bolt, Carriage, 5/16-18 X .75"			
10	24648	Receiver, 2", Class II	Items Not shown in illustration		<u>n illustration</u>
				25353	Wire Harness, Tow Kit



Notes:

Notes:

Daily Checklist for the DR LOG SPLITTER

To help maintain your DR LOG SPLITTER for optimum performance, we recommend you follow this checklist each time you use your Log Splitter.

Before performing any maintenance procedure or inspection, stop the engine, wait five (5) minutes to allow all parts to cool. Disconnect the spark plug wire, keeping it away from the spark plug.

- [] Check the Engine Oil and Gas Tank level.
-] Check that Engine is clean of debris.
-] Check the general condition of the Log Splitter, e.g.; Nuts, Bolts, Welds, etc.
-] Check Hydraulic Fluid level and fill as needed.
-] Check Tire Pressure and wear.
-] Check Hydraulic Hoses for cracks or wear.
-] Check the Frame for wear and damage.
- [] Check the Wedge for tightness, nicks and wear.

End of Season and Storage

Before performing any maintenance procedure or inspection, stop the engine, wait five (5) minutes to allow all parts to cool. Disconnect the spark plug wire, keeping it away from the spark plug.

- Change the Engine Oil.
- Clean or replace the Air Filter.
- Check the Wedge for nicks and wear. Sharpen as needed.
- Grease bottom surface of Slide Rail.
- If your DR DUAL-ACTION GAS LOG SPLITTER will be idle for more than 30 days, we recommend using a Gas Stabilizer. This will prevent sediment from gumming up the Carburetor. If there is dirt or moisture in the Gas or Tank, remove it by draining the Tank. Completely fill the Tank with fresh, unleaded Gas and add the appropriate amount of Stabilizer or Gasoline Additive. Run the Engine for a short time to allow the Additive to circulate.
- Clean the exterior of the unit to remove all dirt, grease, and any other foreign material. Clean dirt and debris from the Cylinder Head Cooling Fins and Muffler area of the Engine. To prevent rust, touch up painted surfaces that have been scratched or chipped.
- Be sure all Nuts, Bolts, and Screws are securely fastened.
- Remove the Spark Plug(s) and pour about 1 ounce of Motor Oil into the Cylinder hole. Replace the Plug(s) and crank the Engine over a couple of times using the Pull Cord, or the Electric Starter (for Electric Start Machines). This will coat the piston and seat the Valves to prevent moisture buildup.
- If possible, store the Log Splitter in a dry, protected place. If it is necessary to store the Log Splitter outside, cover it with a protective material (especially the Engine). For Electric Start Model, store the machine in a dry environment with temperatures between +40°F (5C) and +95°F (+35C). Make sure the storage temperatures will never be outside of these limits. The lower the storage temperature is within the specified temperature the better as the Battery will discharge more slowly at low temperatures. If it is necessary to store the Log Splitter outside make sure to disconnect the Battery and store it in an environment as listed above. Make sure the disconnected Battery Terminals are not resting on any surface that may be prone to collecting water, snow or any other liquid as this may cause damage to the Terminals and to the Battery when reconnected.



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