

DR[®] DUAL-ACTION ELECTRIC LOG 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 Dual-Action Electric Log Splitter.

Table of Contents

Chapter 1: General Safety Rules.....	3
Chapter 2: Setting Up The DR DUAL-ACTION ELECTRIC LOG SPLITTER.....	7
Chapter 3: Operating Your DR DUAL-ACTION ELECTRIC LOG SPLITTER.....	14
Chapter 4: Maintaining The DR DUAL-ACTION ELECTRIC LOG SPLITTER	18
Chapter 5: Troubleshooting	21
Chapter 6: DR DUAL-ACTION ELECTRIC LOG SPLITTER Road Towable Kit.....	24
Chapter 7: Parts Lists, Schematic Diagrams And Warranty	28

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.

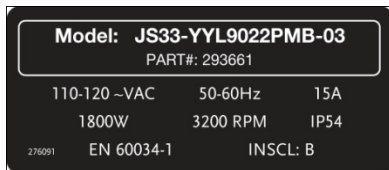
Chapter 1: General Safety Rules

! WARNING

Read this safety & operating Instructions manual before you use the DR DUAL-ACTION ELECTRIC 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 ELECTRIC 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.



27609

! WARNING! DO NOT SIT OR STAND ON TRAY

29395

DR® LOG SPLITTER 

OPERATING INSTRUCTIONS

1. Read Safety & Operating manual for complete instructions.
2. Prepare machine
GAS MODEL: Start engine using instructions from engine manual. Advance throttle control to maximum speed.
ELECTRIC MODEL: Inspect electric cord before use. Do not use if cord is damaged. Use GFI adapter or electrical outlet and only approved extension cords. Start motor using switch.
3. **3-POINT HITCH MODEL:** Connect to tractor using instructions from tractor manual.
3. Grab log by sides and place onto rail, against base plate.
4. Move control handle to **FORWARD** position to extend the cylinder.
5. Release handle to **STOP** the cylinder.
6. Move control handle to **REVERSE** position to retract cylinder.

! WARNING!

AVOID SERIOUS INJURY OR DEATH

READ SAFETY & OPERATING INSTRUCTION MANUAL COMPLETELY.
KEEP HANDS AND ALL BODY PARTS AWAY FROM SPLITTING WEDGE, RAM, PARTIALLY SPLIT WOOD, AND MOVING PARTS.
HOLD LOGS BY THE SIDES, NOT THE ENDS OR TOP WHILE LOADING.
ONLY ONE PERSON IS PERMITTED TO LOAD LOGS AND OPERATE THE LOG SPLITTER.
DO NOT CHECK FOR OIL LEAKS WITH YOUR HAND. USE A CLOTH. HIGH PRESSURE HYDRAULIC FLUID CAN PENETRATE YOUR SKIN, CAUSING BLOOD POISONING.
STAY IN THE MANUFACTURER'S DESIGNATED OPERATOR ZONE.
NEVER OPERATE LOG SPLITTER UNDER THE INFLUENCE OF ALCOHOL OR DRUGS.
GAS AND 3-POINT HITCH MODELS: DON'T REFUEL A HOT OR RUNNING ENGINE.
ONLY OPERATE LOG SPLITTER IN A WELL-VENTILATED AREA.
ELECTRIC MODEL: KEEP ELECTRIC CORD AWAY FROM WATER, OIL, HEAT AND SHARP EDGES. DO NOT USE MACHINE IF THE CORD IS DAMAGED.
USE GFI ADAPTER OR ELECTRICAL OUTLET AND ONLY APPROVED EXTENSION CORDS.



! CAUTION!

OPERATE LOG SPLITTER ON FLAT, LEVEL, DRY GROUND. STAY OFF SLOPES AND SLIPPERY SURFACES.
NEVER ALLOW CHILDREN OR UNTRAINED ADULTS TO USE LOG SPLITTER.
KEEP BYSTANDERS, CHILDREN, AND HELPERS AT LEAST 25 FT. AWAY.
WEAR SAFETY GLASSES, HEARING PROTECTION, TIGHT FITTING WORK GLOVES WITHOUT LOOSE STRAPS OR DRAWSTRINGS, AND SAFETY SHOES.
NEVER LEAVE LOG SPLITTER UNATTENDED DURING OPERATION.
SPLIT WOOD IN THE DIRECTION OF THE GRAIN ONLY.

DR POWER EQUIPMENT 293941
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#29394

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 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 motor when another person or pet approaches.
-

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 motor, wait 5 minutes and relieve hydraulic system pressure before changing or adjusting fittings, hoses, tubing, or other system components.
 - The relief valve settings are set at the factory for best Splitter performance and safety. Make sure other factors such as using an extension cord that is not rated for this application is not the problem before adjusting valve settings.
 - 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.
-

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.
-

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 Log Splitter if there is an electrical hazard present.
 - Never operate the Log Splitter in wet conditions and always store under cover.
 - Never operate the Log 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 Log Splitter unless the electrical cord is plugged into a properly grounded GFCI protected electrical outlet, which supplies 110-120v power, and is protected by a 20-amp circuit breaker.
 - Never tamper with safety devices. Check their proper operation regularly.
 - If you are using 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.
-

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

WARNING

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.
-

WARNING

- Allow only one person to operate the Log Splitter at any time.
- If the machine should start making an unusual noise or vibration, turn the machine off and unplug the electrical cord and allow the machine to cool, 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 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.
- 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 trays and the side of a log; logs spread as they are forced against the wedge.
- Never operate the wedge 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 Log Splitter unattended while plugged in. If you leave the area, unplug from 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 wedge is in motion.
- Use only your hands to operate the Log Splitter controls.
- Do not place your hands at pinch points where they can catch between a log and the wedge, log trays 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 24" for the DR DUAL-ACTION ELECTRIC LOG SPLITTER.
- Never operate the Log Splitter in an area of natural gas or flammable liquids.
- Always operate the Log Splitter from the operator zone (Chapter 3). Never stand on, straddle, or climb over the Log Splitter at any time.
- Do not handle logs by their ends when you position them on the Log Splitter. Handle from the sides of the log.
- Always unplug the Log 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 Log Splitter with its motor running.
- Check the Log 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 Log Splitter. This includes all shields and guards. Modifications to your machine could cause personal injuries and property damage and will void your warranty.
- Know how to stop the Log Splitter quickly; see "Stopping the Log Splitter" in Chapter 3.
- Never operate your unit on a slippery, wet, muddy, or icy surface. Exercise caution to avoid slipping or falling.

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 DUAL-ACTION ELECTRIC 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 ELECTRIC LOG SPLITTER

It may be helpful to familiarize yourself with the controls and features of your DR DUAL-ACTION ELECTRIC 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.

DR DUAL-ACTION ELECTRIC LOG SPLITTER Controls and Features

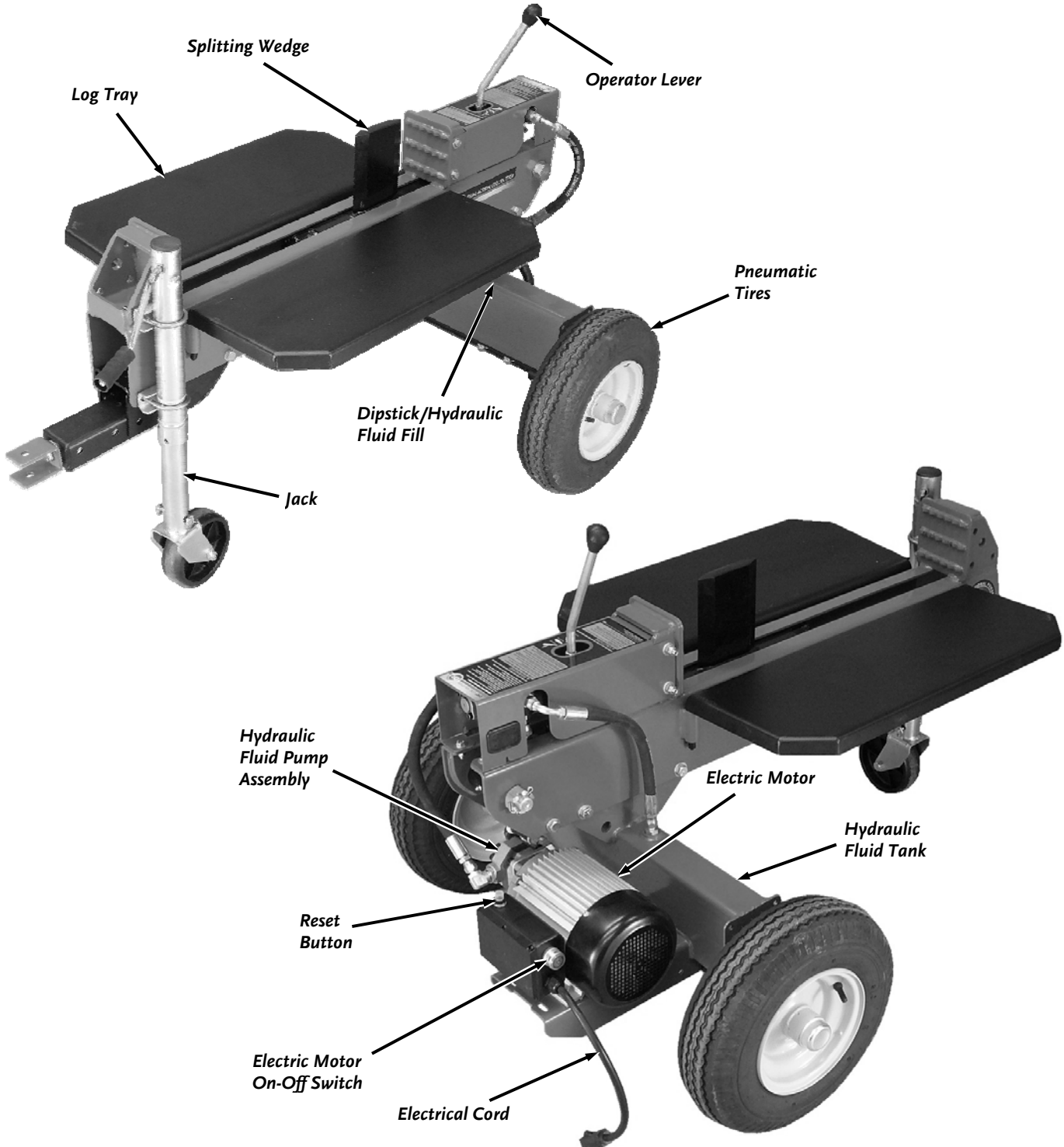


Figure 1

Specifications

Motor	1.8kW, 110V AC Motor
Bed height	24" (610mm)
Wedge	6.61" (168mm) h, .75" (19mm) w/high carbon steel.
Log Trays	27.45in (697mm) L x 11.45in (290mm) W
Force/Tonnage	10 ton
Log Length	20 inches
Log Diameter*	24 inches
Cycle Time	Approx. 21 seconds
Wheels & Tires	Dot Approved, 4.8/4-8, Steel Wheel With Taper Roller Bearings
Weight	298 lbs (150kg)
Dimensions	64"L X 40.5"W X 38.5"H
Cylinder Size	3" (76mm) Bore, 18.51" (470mm) Stroke
Hydraulic Tank	6 Quarts
Pump	Single Stage, 1.58 Gal/min (6 L/minute)
Control Valve	Integrated Pressure Relief
Hydraulic Fluid	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 ELECTRIC 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):

Item #	Part #	Description	Qty
1	13443	Bolt, HCS, 5/16-18 X 1-1/2, Gr5, ZP	4
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
9	15192	Pin, Hitch Clip, 5/16" - 3/8"	4
10	25311	Pin, Cotter, 3/16" X 2.5"	2
11	25310	Nut, Slotted, 1-14, ZP	2
12	25318	Cap, Dust	2
13	11075	Nut, Nylon Lock, 3/8-16, ZP	4
14	11241	Washer, Flat, 5/16 USS, ZP	4
15	29377	Clamp, 2 inch, Jack	2
16	29378	U-bolt, 3/8-16 X 2 X 4, ZP	2

* Only 8 are used for this model.

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

CAUTION

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**).
2. 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.
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.

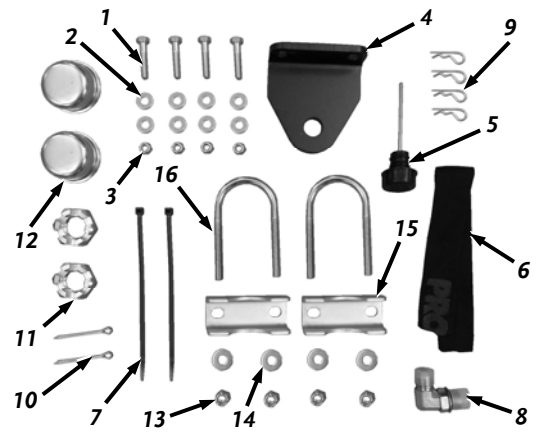


Figure 2

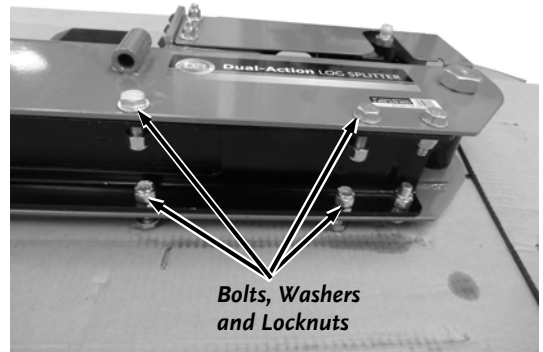


Figure 3

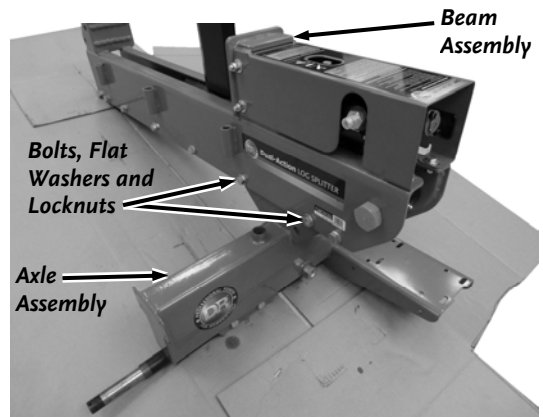


Figure 4

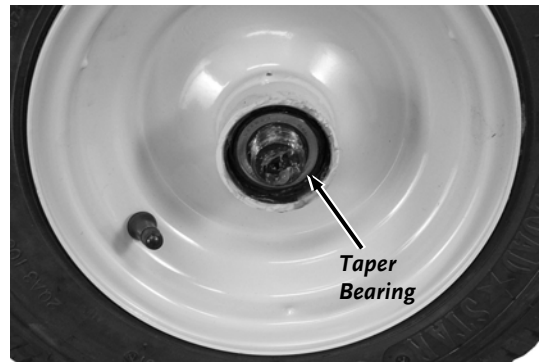


Figure 5

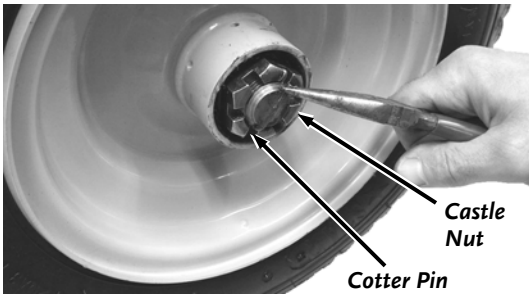


Figure 6



Figure 7

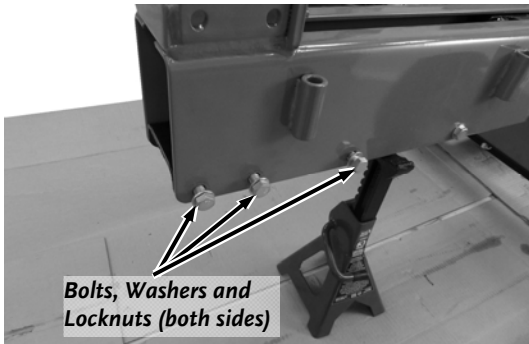


Figure 8

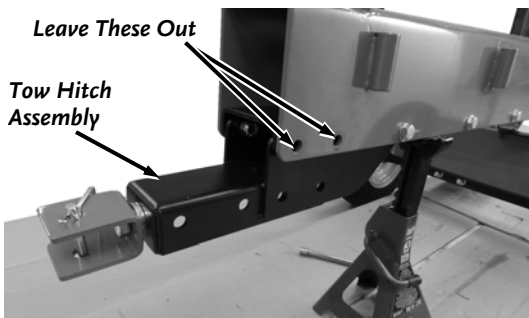


Figure 9

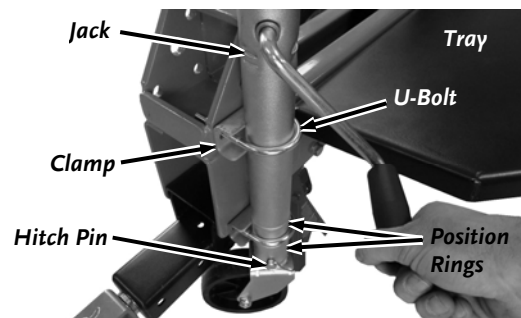


Figure 10

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**).

12. 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.

Note: The Slots of the Engine Mount are for Gas Engine mounting and the round holes are for Electric Motor mounting.

16. Position the Motor onto the Bracket and align the Motor Base holes with the holes of the Bracket (**Figure 11**).

17. Install the four sets of Bolts, Flat Washers (top and bottom) and Locknuts to secure the Motor to the Mount using two 1/2" Wrenches.

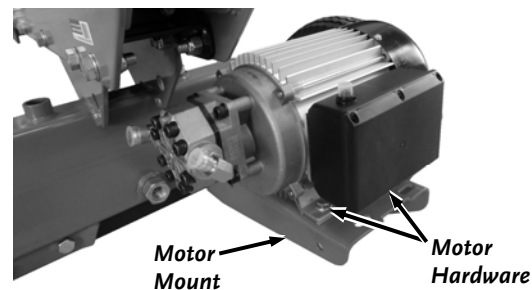


Figure 11

Note: Remove protective Caps as needed for the following Hydraulic Hose connections.

18. 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 12**).
19. Tighten the Elbow Jam Nut against the Tank with a 7/8" Wrench.
20. Use Wire Cutters to cut the Cable Ties holding the Hydraulic Hoses together.
21. Install the Fluid Suction Hose onto the Pump and Tank fittings using a 7/8" Wrench.

22. Slide the Sheathing over one of the Pressure Hoses and secure it to the Hose with a Cable Tie near each end (**Figure 13**).

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.

23. Install the Hose with Sheathing to the Control Valve (long elbow end) and Pump using a 7/8" Wrench.
24. Install the Fluid Return Hose to the Control Valve (long elbow end) and top of the Tank using a 7/8" Wrench (**Figure 14**).
25. Install Hydraulic Cap/Dipstick into the hole on top of the Tank (**Figure 15**).
26. Remove the Nut and Flat Washer from the Control Lever threads and reinstall the Nut all the way onto the threads (**Figure 16**).
27. 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.
28. Install the Trays onto the sides of the Beam assembly and secure with the Hitch Clips (**Figure 17**).

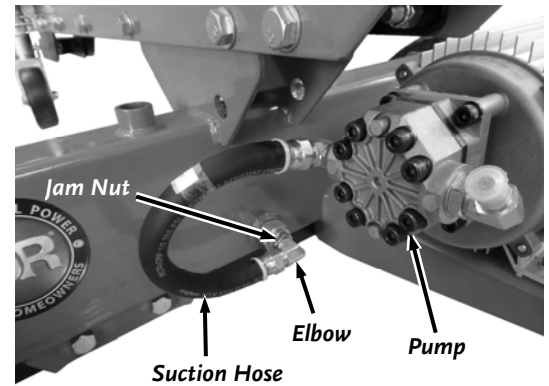


Figure 12

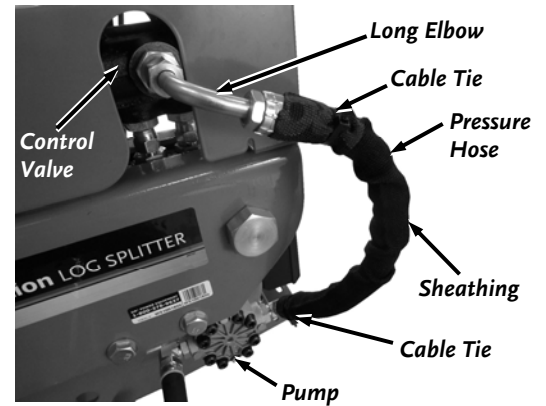


Figure 13

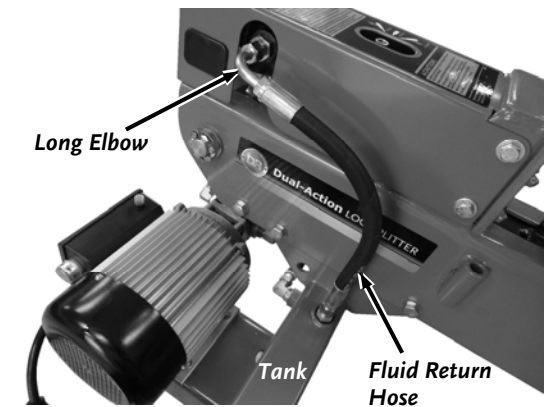


Figure 14

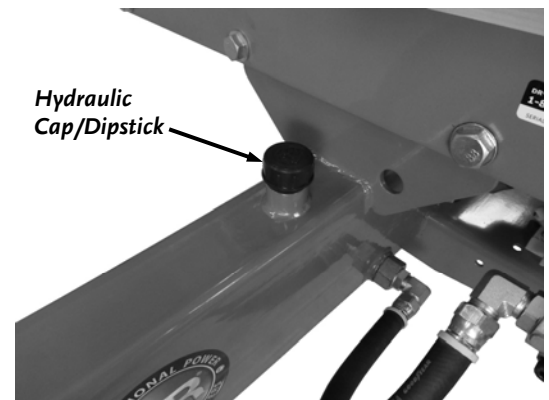


Figure 15

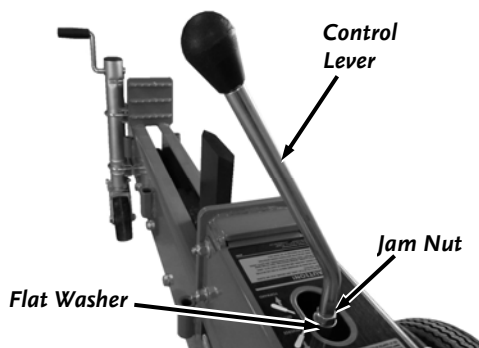


Figure 16

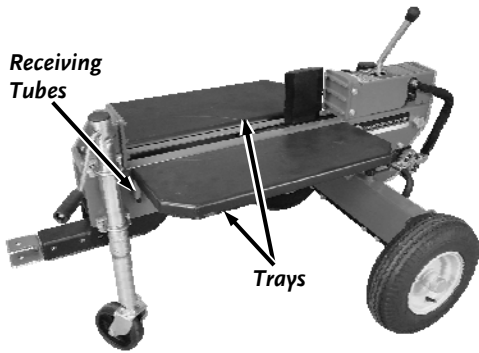


Figure 17

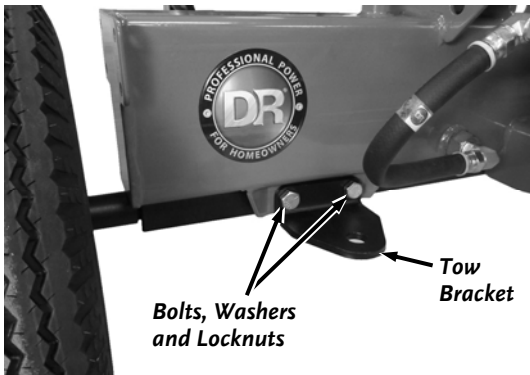


Figure 18

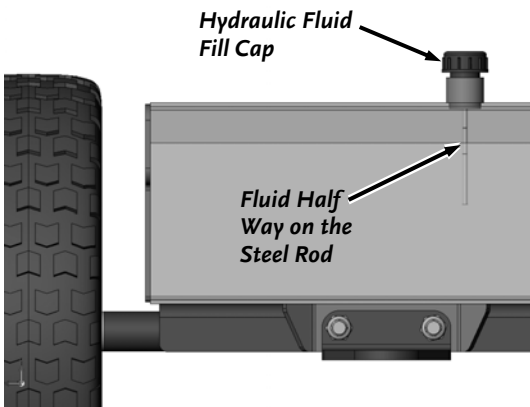


Figure 19

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 18**).

31. Raise the Jack so the Wood Splitter is parallel with the ground.

Adding Hydraulic Fluid

Tools and Supplies Needed:

- Paper Towels
- Hydraulic Fluid

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.

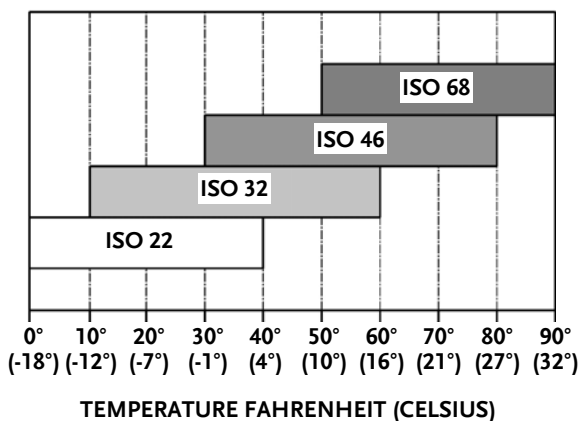
TIP: Check the Fluid level by removing the Hydraulic Fluid Filler Cap and wiping the steel rod of the Dipstick with a Paper Towel. Reinsert the Cap fully (**Figure 19**). Remove the Cap and lay the Steel Rod onto a dry Paper Towel and read the level by the wet mark that is transferred from the Steel Rod to the Paper Towel.

1. 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.

HYDRAULIC OIL ISO RECOMMENDATIONS



TEMPERATURE FAHRENHEIT (CELSIUS)

Table-1

2. Start the Motor and cycle the cylinder several times (see "Operating Your DR Dual-Action Log Splitter", Chapter 3).
3. Retract the cylinder and shut off the Motor and recheck Fluid level.
4. Adjust level as needed.

Check the Tire Pressure

WARNING

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

Tools Needed:

- Tire Pressure Gauge
 - Air Compressor
5. Remove the Valve Stem Protective Cap (**Figure 20**) and check the tire pressure with a Tire Pressure Gauge.
 6. Check what the manufacturers recommended pressure is that is stamped on the side of the Tire.
 7. If the pressure is too low, add air through the Valve Stem with an air hose.
 8. Replace the Valve Stem Protective Cap when finished.



Figure 20

Chapter 3: Operating Your DR DUAL-ACTION ELECTRIC LOG SPLITTER

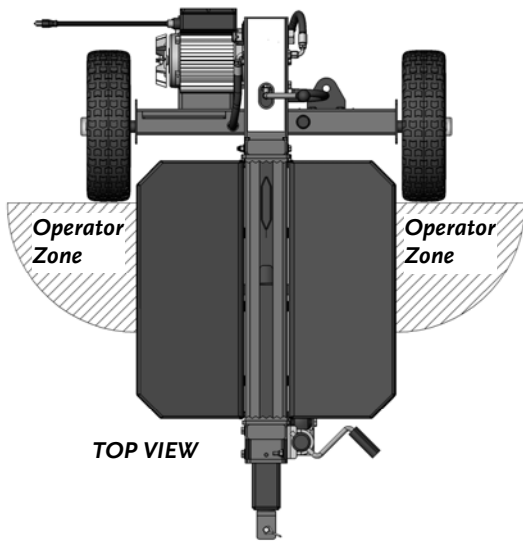


Figure 21

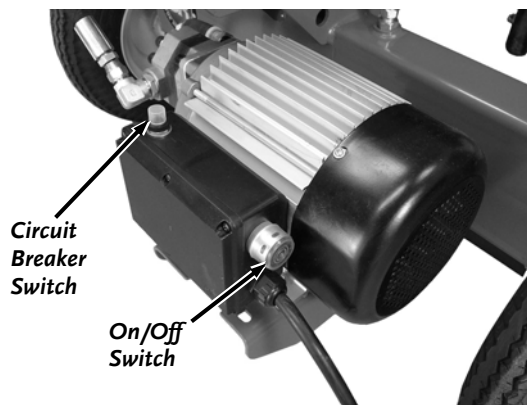


Figure 22

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.

! WARNING

- Read and understand all instructions, safety precautions, and/or warnings listed in “Chapter 1 General Safety Rules” before operating this DR Dual-action electric 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) as shown in **Figure 21**. 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 Log Splitter is plugged into a properly grounded 15 Amp, GFCI protected outlet.
3. Push the On/Off Switch all the way in and then pull finger away to start the Motor (**Figure 22**).

Stopping

1. Push the On/Off Switch all the way in and then pull finger away to stop the Motor.
2. When not using the Splitter unplug the Cord.

Splitting

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

WARNING

- 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 23*).
- 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.

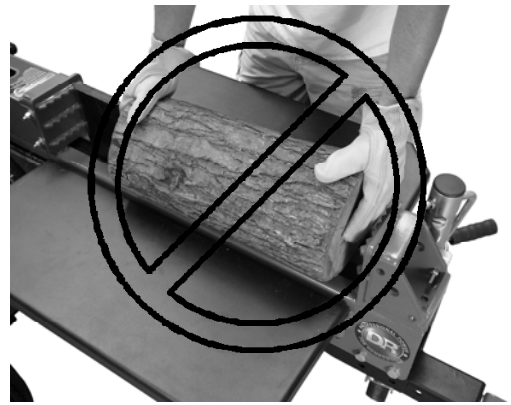


Figure 23

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 24*).
- 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 25*).

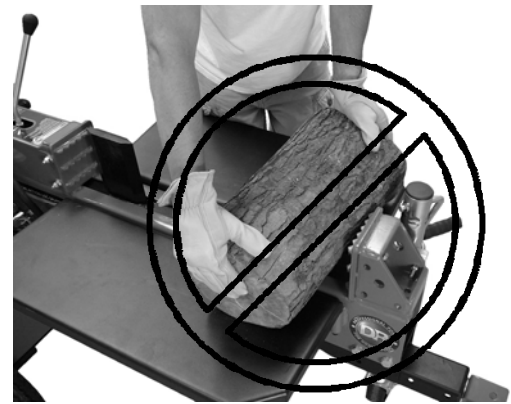


Figure 24

NOTICE

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

1. Place the log on the Log Splitter. Grasp the log on the sides near the middle of the block (*Figure 26*). 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 27*). If the log moves before it is contacted by the Wedge, release the Valve Control Handle and then reposition the log.

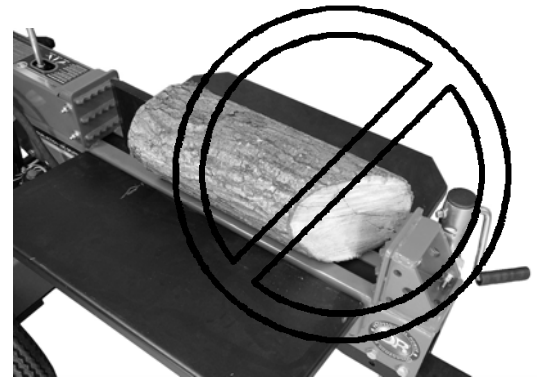


Figure 25

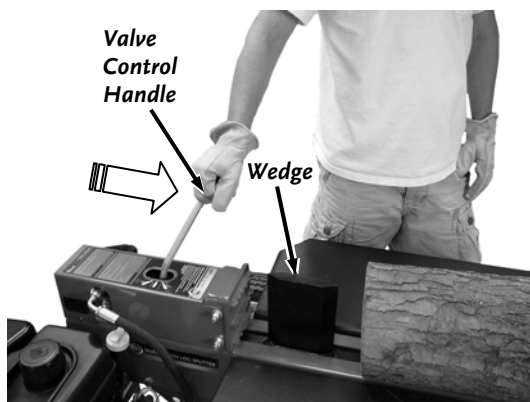


Figure 27

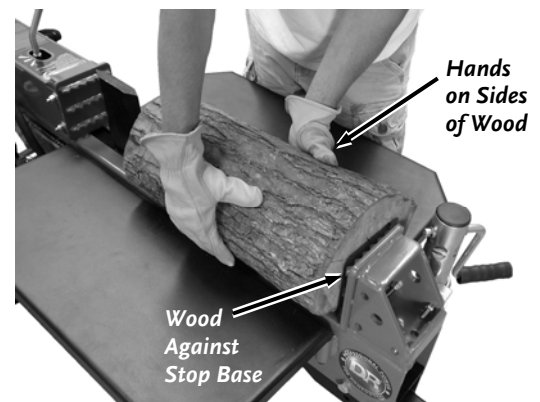


Figure 26

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.

⚠ CAUTION

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 motor, 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 ELECTRIC LOG 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 around the splitting Wedge, Ram and Trays.	▲	
Check the Splitting Wedge for sharpness.	▲	
Check the general condition of the Log Splitter (e.g. nuts, bolts, welds, etc).	▲	
Check the Wedge for smooth travel.	▲	
Check the condition of the electrical cord.	▲	
Check the hydraulic fluid level (See “Adding Hydraulic Fluid” in Chapter 2).	▲	
Check Tire pressure	▲	
Change the hydraulic fluid (See “Changing the Hydraulic Fluid”).	1 st Time 25 Hours	▲

General Maintenance Check (before operating)

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

WARNING

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

Always replace frayed, kinked, or cracked hoses and/or other damaged hydraulic components with 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.

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 Motor, and moving the valve control handle back and forth several times until no cylinder movement is visible.

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.

- Place an approved container under the inlet hose.
- Disconnect the Inlet Hose at the Pump Elbow using an Adjustable Wrench and lower the Hose to drain the Fluid into the Container (**Figure 28**).
- Remove the Hydraulic Fluid Dipstick to let air in to improve fluid flow.
- Completely drain the Tank.
- Disconnect the Inlet Hose at the Tank Elbow using an Adjustable Wrench.
- Remove the Screen (with elbow) from the Tank with an Adjustable Wrench and clean any debris from the Screen or replace as needed (**Figure 29**).
- Reinstall the Screen (with elbow).
- Reconnect the Inlet Hose at the Tank Elbow using an Adjustable Wrench.
- Reconnect the Inlet Hose at the Pump Elbow using an Adjustable Wrench.

2. Refill the hydraulic tank.

- Remove the Hydraulic Fluid Dipstick from the Hydraulic Tank (**Figure 28**).
- Fill the Hydraulic Tank as described in the “Adding Hydraulic Fluid” section in Chapter 2.

3. Start the engine and cycle the cylinder.

- Start the Motor and cycle the cylinder several times (see “Operating Your Log Splitter”, Chapter 3).
- Retract the cylinder and shut off the Motor.
- Recheck the Hydraulic Tank to make sure fluid is up to the proper level.

Hydraulic Fluid Capacities

Hydraulic Tank 6 quarts (5.6 liters)

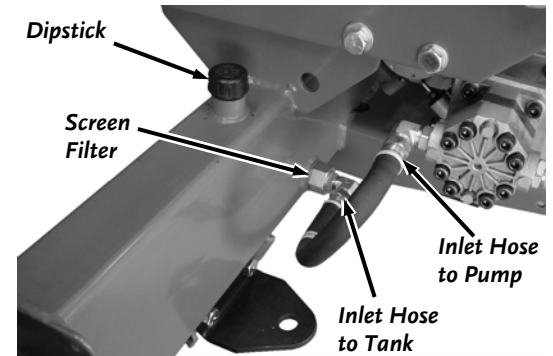


Figure 28

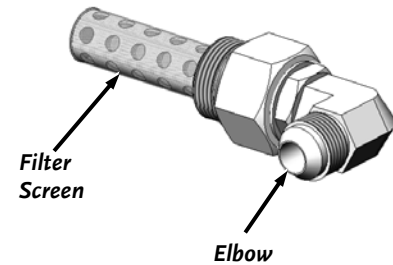


Figure 29

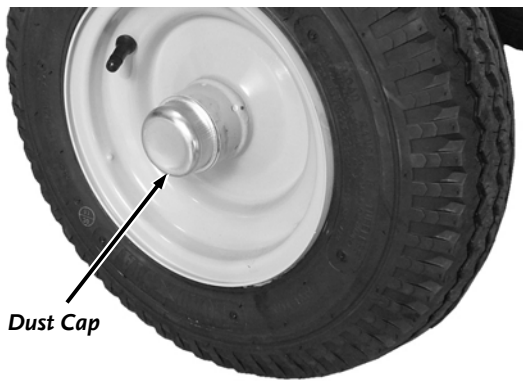


Figure 30

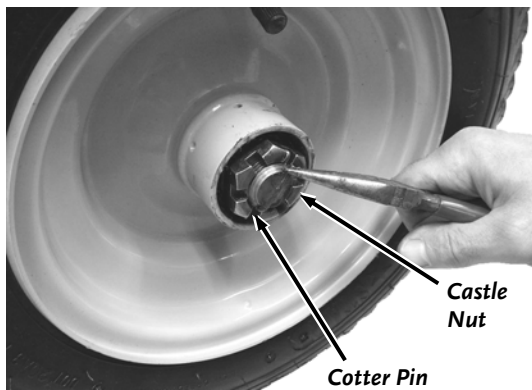


Figure 31

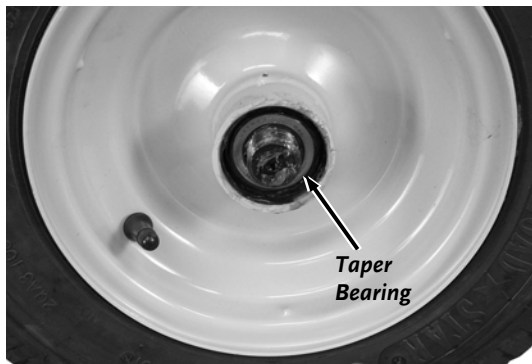


Figure 32

Replacing the Wheels

Tools and Supplies needed:

- Channel lock Pliers
- Clean Rags
- Adjustable Wrench
- Needle Nose Pliers
- Jack and Jack Stands
- Soft Face Hammer

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 30**).
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 31**).
4. Remove the Castle Nut with the Channel Lock Pliers.
5. Pull the Wheel assembly and Taper Bearing from The Axle (**Figure 32**).
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 31**).
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 30**).
12. Jack the back of the Splitter up and remove the jack Stands.
13. Lower the Splitter to the ground.

Adjusting the Pressure Valve

The Log Splitter is set at the factory to optimize splitting force. The following adjustment should only be performed if the splitter Breaker or house Breaker is being tripped excessively while splitting Logs. Adjusting to less pressure should lessen the Breaker problem but will also lessen splitting force.

Tools needed:

- Two 9/16" Wrenches
- Two 1/2" Wrenches
- 10mm Wrench
- 4mm Allen Wrench

1. Remove the Operator Lever Knob by unscrewing it counterclockwise.
2. Remove the front hardware from the Valve Cover using Two 9/16" Wrenches (**Figure 33**).
3. Remove the rear hardware from the Valve Cover using Two 1/2" Wrenches.
4. Remove the Valve Cover.
5. Remove the Valve Plug using a 10mm Wrench (**Figure 34**).

Note: Only turn the Pressure Screw 1/4 turn at a time to prevent over adjustment.

6. Adjust the Pressure Screw by turning it counterclockwise 1/4 turn (less pressure) or clockwise 1/4 turn (more pressure) with a 4mm Allen Wrench (**Figure 35**).

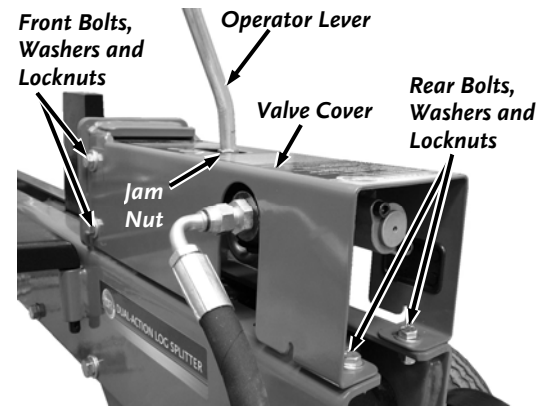


Figure 33

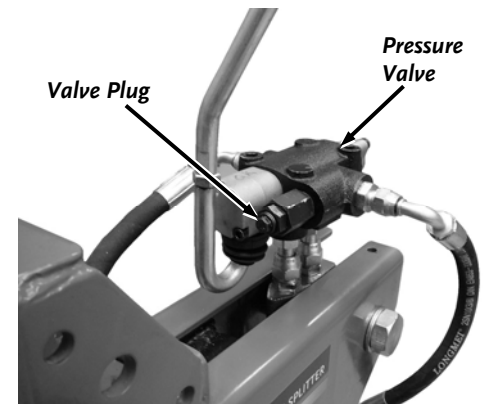


Figure 34



Figure 35

NOTICE

If you turn the pressure screw out too far and it comes out of the valve, screw it back in all the way as you count the number of full turns until it stops. Turn it back out half the number of turns to position the screw at the central pressure location. Use this position to start pressure adjustment again.

7. Replace the Valve Plug and operate the Log Splitter to check the setting and adjust further as needed.

WARNING

Valve plug should always be installed before testing pressure to protect yourself from high pressure fluid.

8. Position the Valve Cover.
9. Install the rear hardware of the Valve Cover using Two 1/2" Wrenches.
10. Install the front hardware of the Valve Cover using Two 9/16" Wrenches.
11. Install the Operator Lever Knob by screwing it on clockwise.

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 Log Splitter power cord from the power source.

Troubleshooting Table

SYMPTOM	POSSIBLE CAUSE
<i>With Motor running and the valve control handle is pushed, the wedge does not move or is slow to respond.</i>	<ul style="list-style-type: none"> ⇒ Air in the system; Bleed any accumulated air from the hydraulic system. ⇒ The Log Splitter may not be on a level surface. ⇒ Make sure the voltage at the outlet or extension cord connection to the DR DUAL-ACTION ELECTRIC LOG 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. ⇒ 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.
<i>The Motor does not run</i>	<ul style="list-style-type: none"> ⇒ Splitter unplugged; plug Splitter in. ⇒ Splitter Cord may be damaged; visit our website at www.DRPower.com or call 1-800-DR-OWNER (376-9637) for assistance. ⇒ The motor Reset has tripped; push the Reset Button. ⇒ If the above causes are not the problem, a circuit breaker might need to be reset; Reset Circuit Breaker. ⇒ If the Motor still does not run, visit our website at www.DRPower.com or call 1-800-DR-OWNER (376-9637) for assistance.
<i>Log fails to split.</i>	<ul style="list-style-type: none"> ⇒ Check the possible causes for the previous Wedge operation symptom. ⇒ Incorrect positioning of the log; re-position the log flat on the splitting beam with the end squarely against the Base. ⇒ 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 24" for the DR DUAL-ACTION ELECTRIC LOG SPLITTER. ⇒ 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.

Troubleshooting Table (Continued)

WARNING

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

SYMPTOM	POSSIBLE CAUSE
<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. To bleed, make sure the fluid level is correct, cycle in one direction, bottom out, hold for 5 seconds, retract fully, bottom out, hold for 5 seconds, repeat 10 times. If the problem persists, visit our website at www.DRPower.com or call 1-800-DR-OWNER (376-9637) for assistance.
<i>Hydraulic fluid leaking from the ram or other external parts.</i>	<ul style="list-style-type: none">⇒ 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.
<i>Splitter Breaker or house Breaker is being tripped excessively.</i>	<ul style="list-style-type: none">⇒ Pressure Valve set too high; Adjust Valve pressure by performing adjustment on page 18.

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

Tools and Supplies Needed:

- Two 7/16" Wrenches
- Two 1/2" Wrenches
- Two 9/16" Wrenches
- Two 3/4" Wrenches
- 15/16" Wrench
- 15/16" Socket with 1/2" Ratchet

Installing the Road Towable Kit

12. Remove the existing Hitch from the Splitter by removing the large Bolt, Washers and Locknut using a 15/16" Wrench and Ratchet with a 15/16" Socket (**Figure 36**).
13. Attach the new Tow Hitch to the Frame with the two 1/2-13 x 4" Bolts and Locknuts using two 3/4" Wrenches (**Figure 37**).
14. Position the Safety Chains at the holes in the Frame and secure with two 3/8-16 x 1-1/2" Bolts, four Washers (one on Bolt side and one on Locknut side) and Locknuts using two 9/16" Wrenches.
15. Place the Vehicle Connector end of the Wire Harness near the Tow Hitch and let it extend about two feet past the Hitch. Place the 7/16" Tube Clamp around the Harness and secure the Clamp to the Frame using two 7/16" Wrenches (**Figure 38**).

Note: Make sure there is enough of the Harness past the Tube Clamp to be connected to the tow vehicle.

16. Guide the other end of the Harness behind the Hitch and under the Frame. Feed the Harness over the center of the Hydraulic Tank so it is at the Back of the machine.
17. Remove a Bolt, Washer and Locknut at the center of the Frame on the Left side with two 9/16" Wrenches (**Figure 39**). Place the large Tube Clamp over the Harness and secure to the Frame with the Bolt, Washer and Locknut from the kit. Tighten the Clamp Hardware with two 1/2" Wrenches.

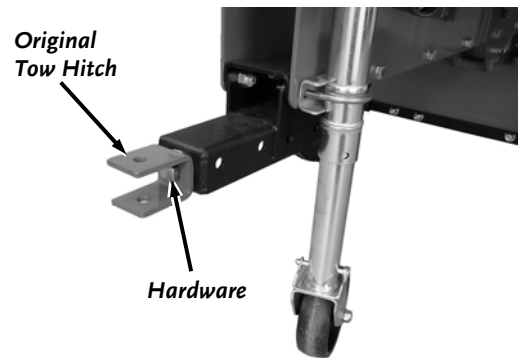


Figure 36

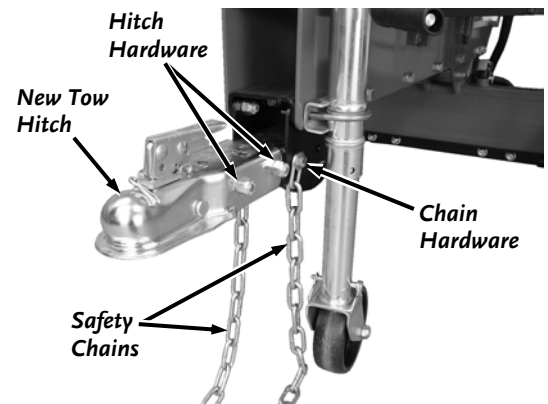


Figure 37

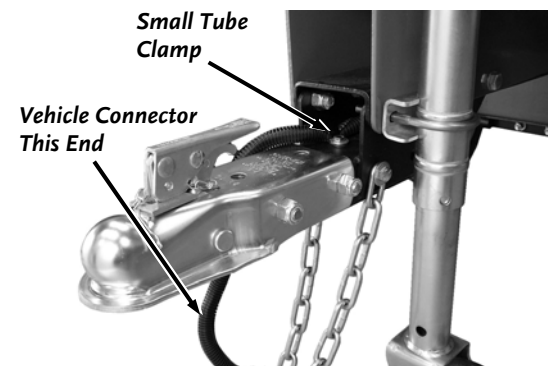


Figure 38

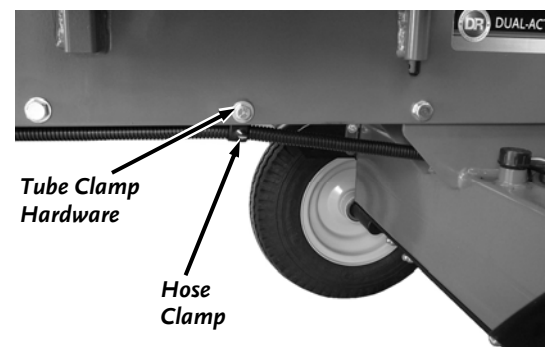


Figure 39

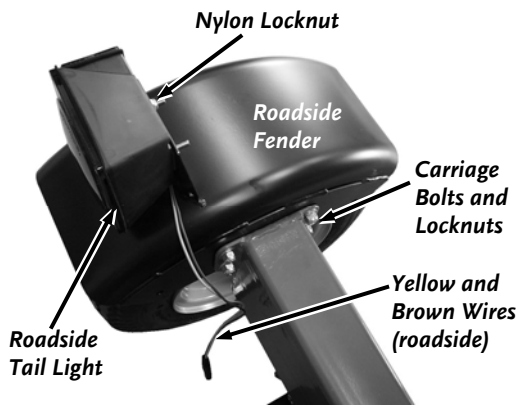


Figure 40

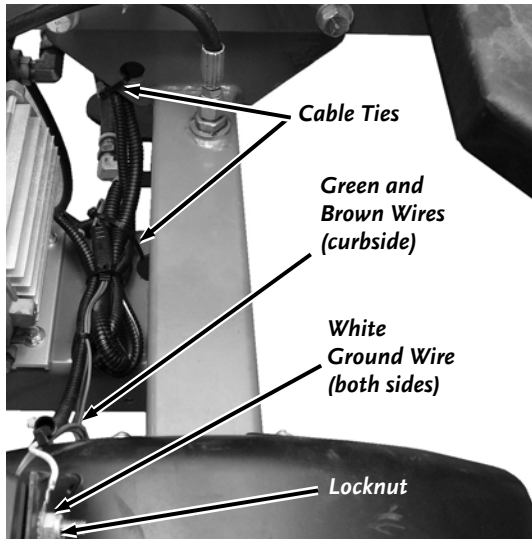


Figure 41

18. 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 40**).
19. 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.
20. Route the Yellow/Brown Wire Connector with a White Ground Wire behind the Tank on the roadside (left side) of the Splitter.
21. 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 41**).
22. Route the Green/Brown Wire Connector with a White Ground Wire behind the Tank on the curbside (right side) of the Splitter.
23. 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.
24. 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.

Attaching to Tow Vehicle

! WARNING

Making sure the Splitter is securely attached to the vehicle is the responsibility of the owner/operator. Failure to securely attach the Splitter can cause loss of control of the vehicle or the 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.

25. Close the Latch Assembly on the Tow Hitch Assembly to lock the Tow Hitch Assembly onto the Tow Ball (**Figure 42**). Attach the towing Safety Chains to the tow vehicle ensuring there is enough slack for turning.
26. Make sure the hitch coupler is properly and securely attached to the tow ball.
27. Insert the Locking Pin into the hole of the Latch Assembly to lock it in the closed position (**Figure 43**).
28. For extra safety and security, you may want to purchase a lock to install into the hole of the latch assembly.
29. Plug the Harness Connector to the Tow Vehicle.

Hitch Coupler Adjustment Check

30. Place a 2" ball in the socket of the coupler and close the latch assembly (**Figure 44**). Verify that the locking trigger is properly engaged in its detent.
31. 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

32. With the proper size ball in the socket of the hitch coupler, close the latch of the coupler completely (**Figure 45**). Verify that the locking trigger is properly engaged in its detent.
33. Tighten the lock nut on the underside of the coupler until the spring between the nut and the clamp is fully compressed. Then back off the lock nut 1/2 turn or just enough that the latch is able to clamp and unclamp from the ball.

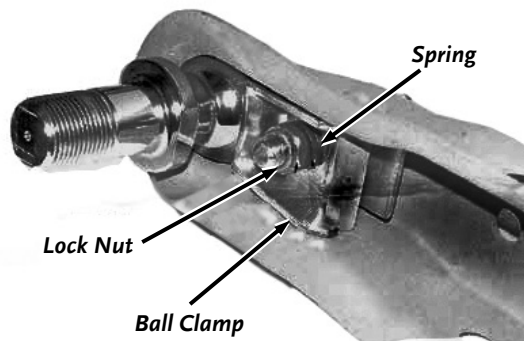


Figure 45

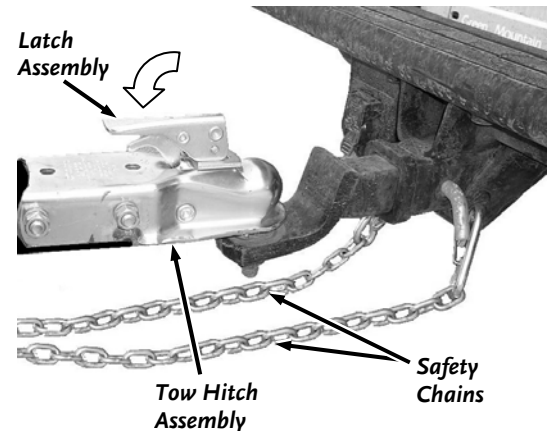


Figure 42

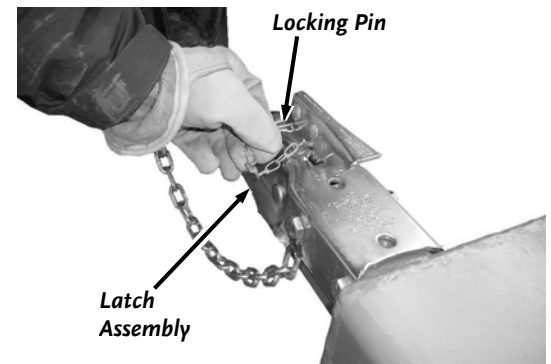


Figure 43

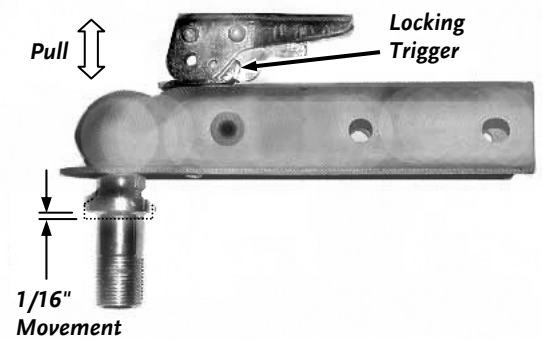


Figure 44

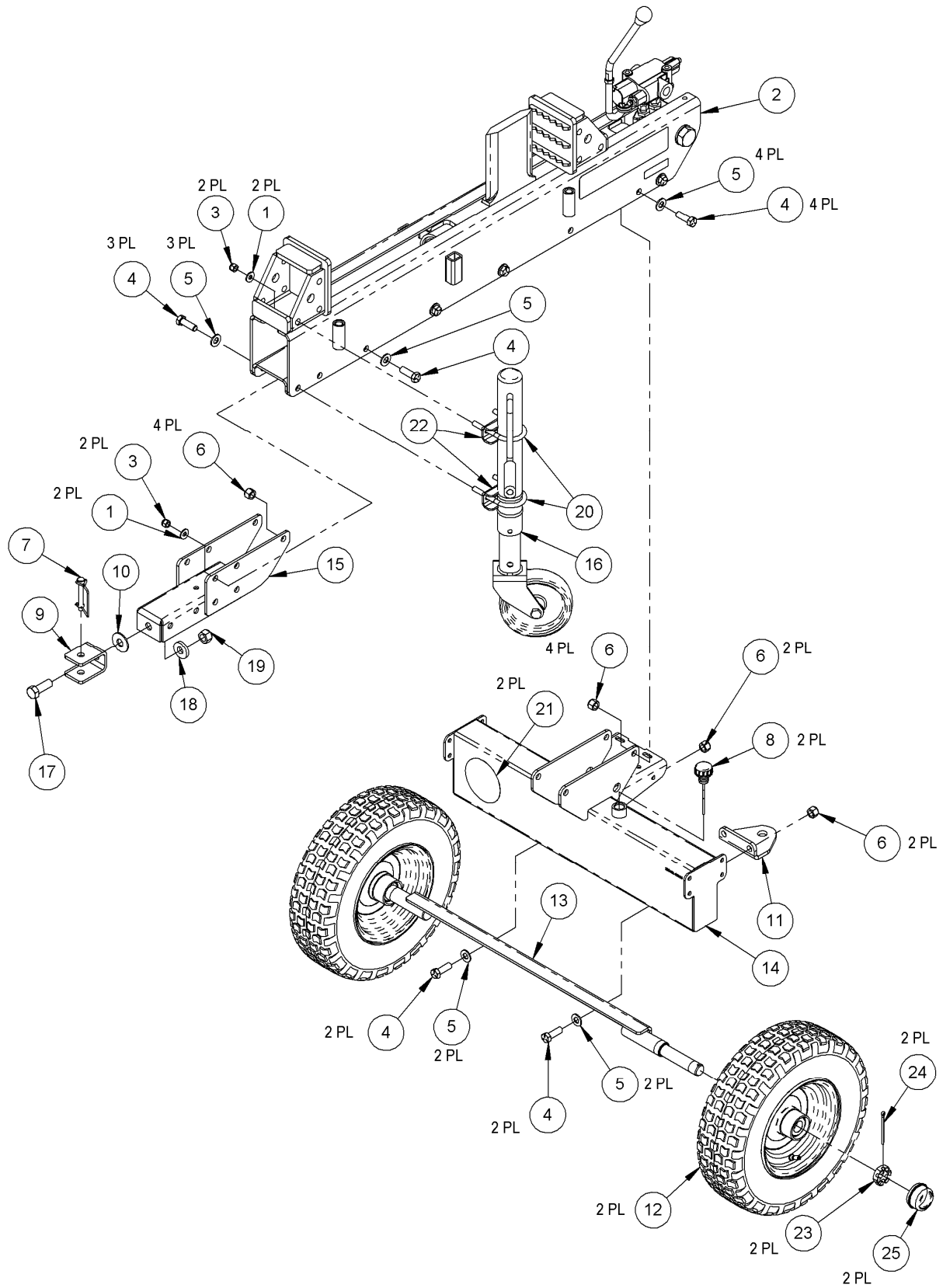
Chapter 7: Parts Lists, Schematic Diagrams And Warranty

Parts List - FRAME ASSEMBLY

NOTE: Part numbers listed are available through DR Power Equipment.

<u>Ref#</u>	<u>Part#</u>	<u>Description</u>	<u>Ref#</u>	<u>Part#</u>	<u>Description</u>
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	U-bolt, 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			

Schematic – FRAME ASSEMBLY

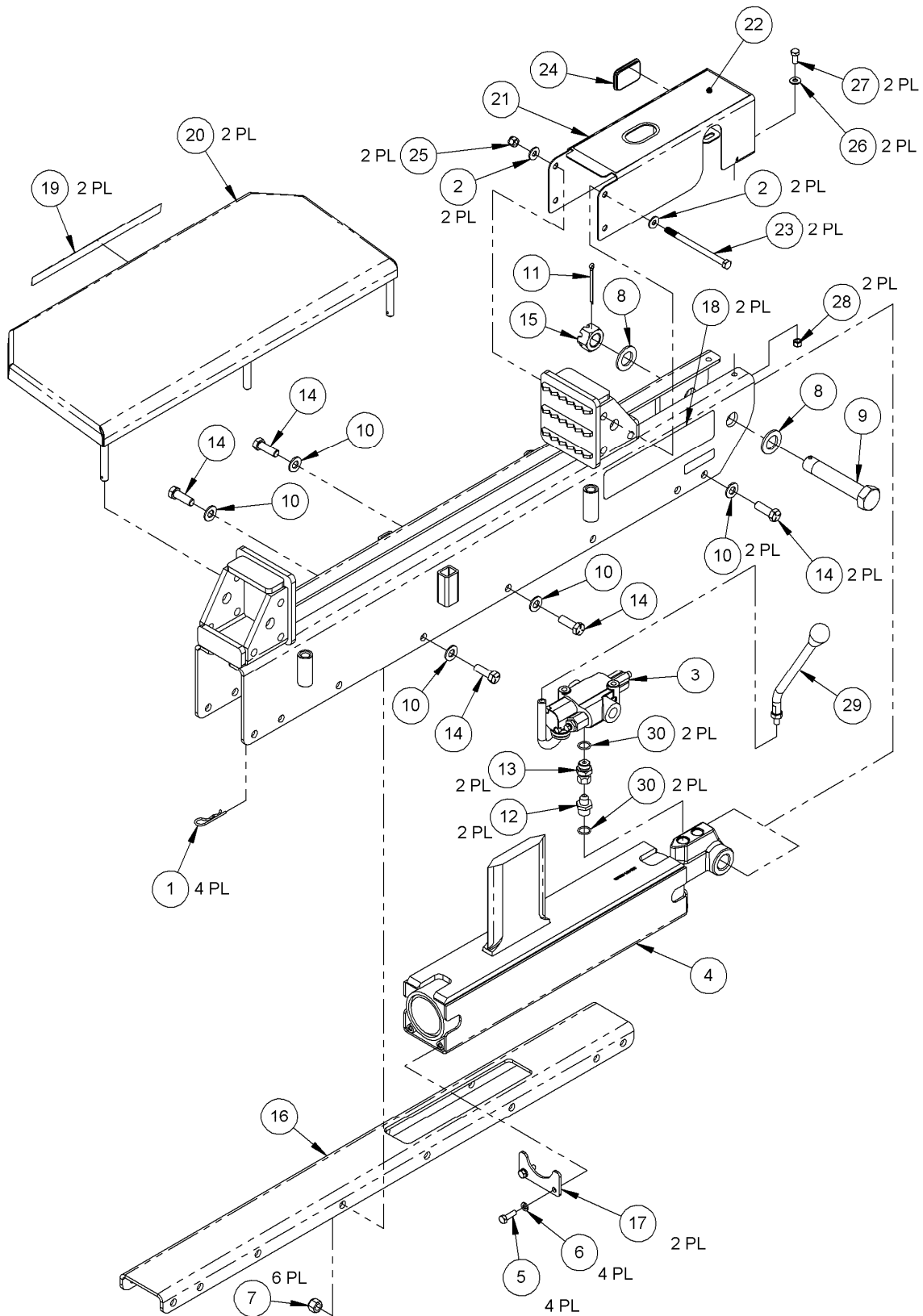


Parts List – BEAM ASSEMBLY

NOTE: Part numbers listed are available through DR Power Equipment.

<u>Ref#</u>	<u>Part#</u>	<u>Description</u>	<u>Ref#</u>	<u>Part#</u>	<u>Description</u>
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

Schematic – BEAM ASSEMBLY

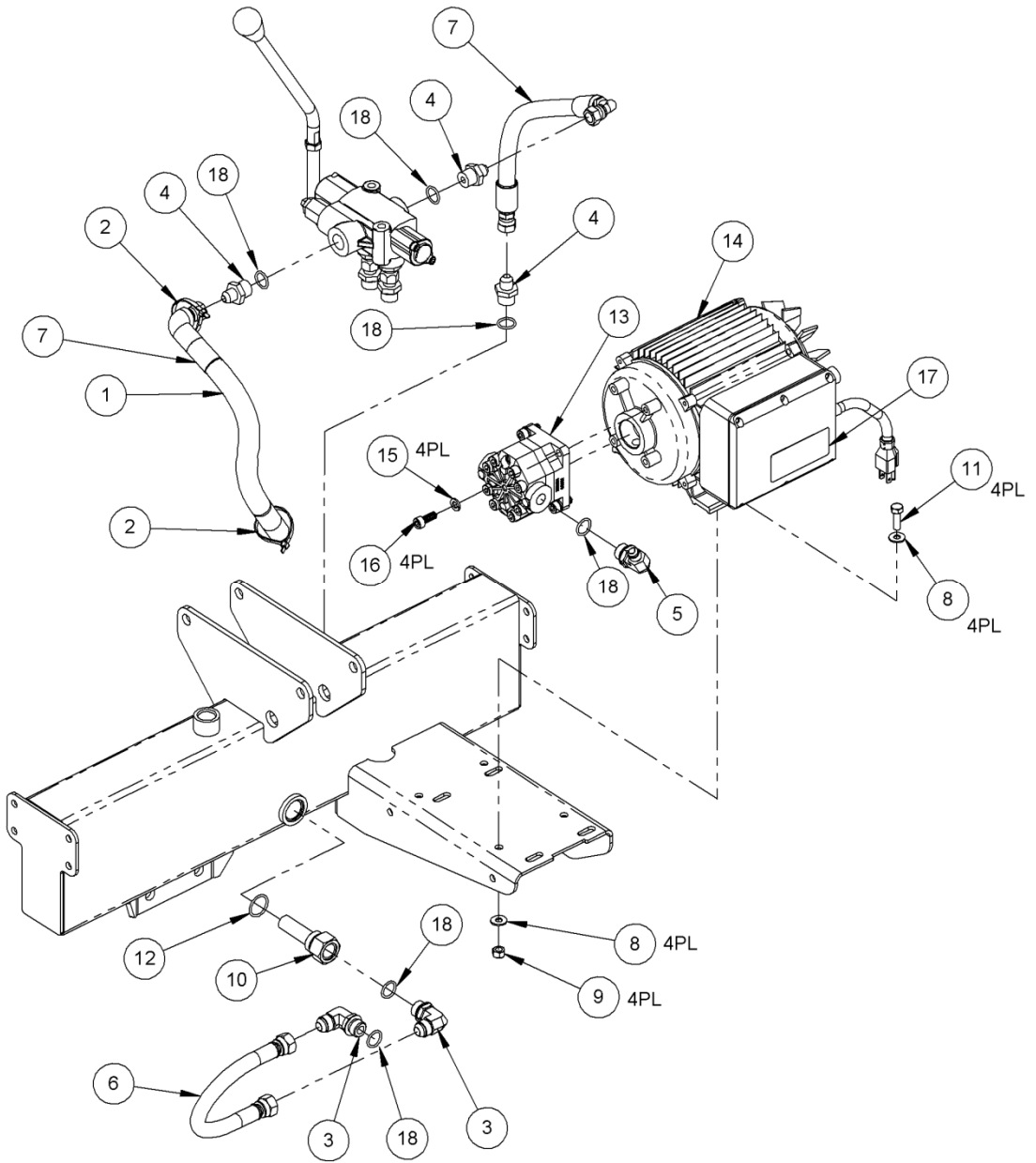


Parts List – MOTOR AND PUMP ASSEMBLY

NOTE: Part numbers listed are available through DR Power Equipment.

<u>Ref#</u>	<u>Part#</u>	<u>Description</u>	<u>Ref#</u>	<u>Part#</u>	<u>Description</u>
1	27610	Sheathing, Abrasion Resistant, 15.5"	11	11158	Bolt, HCS, 5/16-18 X 1"
2	11214	Tie, Cable, 7 1/2"L	12	29511	O-ring, 28.5mm X 2.4mm
3	25616	Hyd Adapter, Jcm08-Obm08-90	13	29358	Pump, Hyd, 6L/Min
4	25346	Hyd Adapter, Jcm06-Obm08	14	29366	Motor, 1.8kw, 120V, 60Hz
5	25348	Hyd Adapter, Jcm06-Obm08-90	15	11243	Washer, Lock, Split, 5/16"
6	25333	Hose Assembly, Hyd, Tank-Pump, 12.5"	16	27629	Bolt, SHCS, M8-1.25 X 20
7	29364	Hose, Hyd, 15"	17	27609	Label, Motor, Electric
8	11238	Washer, Flat, 1/4", USS	18	29503	O-ring, 22mm X 2.4mm
9	11076	Nut, Nylon Lock, 5/16-18			
10	29512	Filter, Hyd, In tank			
			<u>Items Not shown in illustration</u>		
			29381		Pump Assembly, Motor

Schematic – MOTOR AND PUMP ASSEMBLY

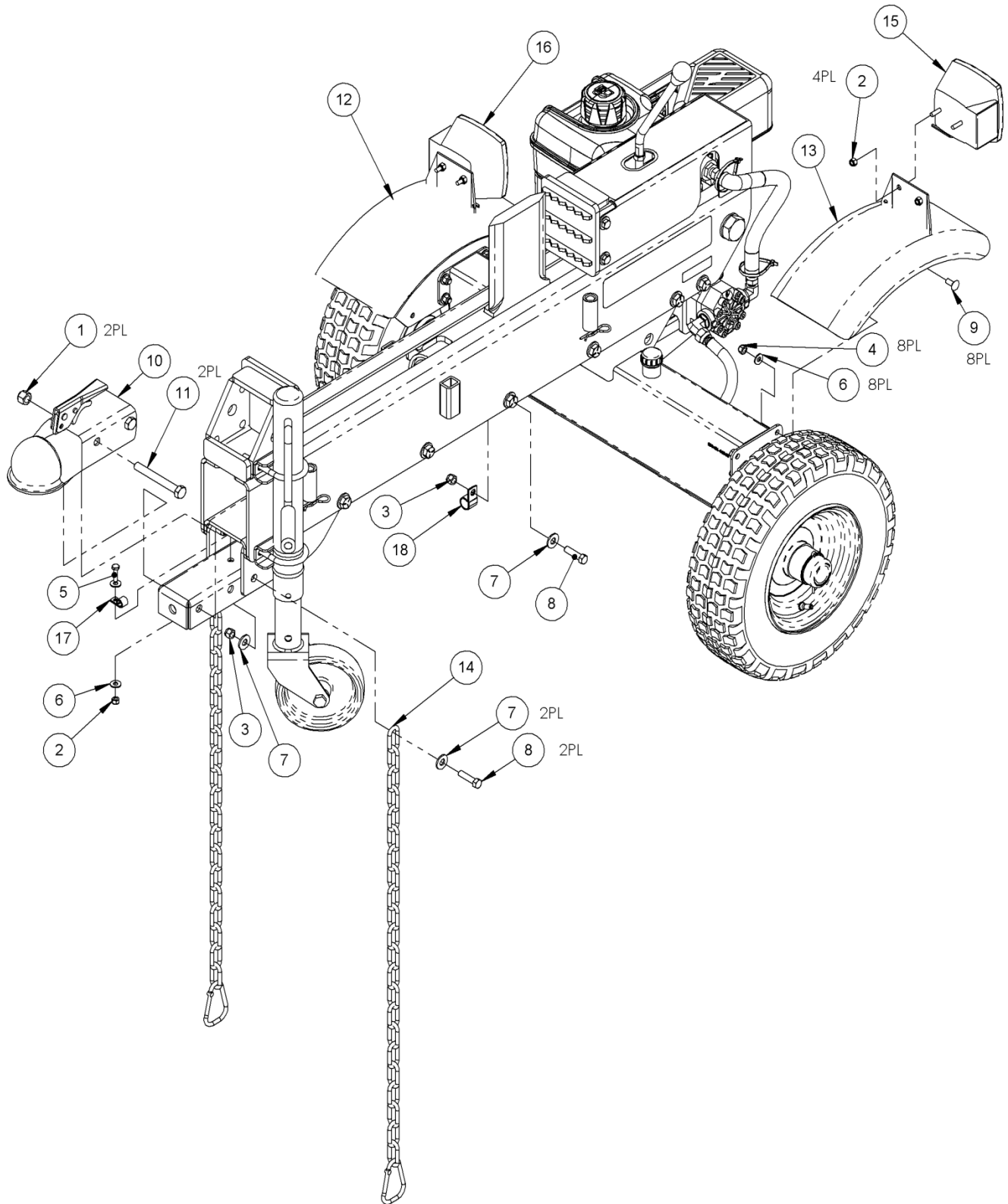


Parts List – ROAD-TOW ACCESSORY

NOTE: Part numbers listed are available through DR Power Equipment.

<u>Ref#</u>	<u>Part#</u>	<u>Description</u>	<u>Ref#</u>	<u>Part#</u>	<u>Description</u>
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"	<u>Items Not shown in illustration</u>		
10	24648	Receiver, 2", Class II	25353		Wire Harness, Tow Kit

Schematic – ROAD TOW ACCESSORY



Daily Checklist for the DR DUAL-ACTION ELECTRIC LOG SPLITTER

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

⚠ WARNING

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

- [] Clean and Wood Chips from the machine.
- [] Check the Splitting Wedge for damage and sharpness.
- [] Check the general condition of the Log Splitter, e.g.; nuts, bolts, welds, etc.
- [] Check the Wedge 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 Log Splitter power cord from the power source.

- Fully retract the Cylinder so the Rod is not visible.
- Wipe down the DR DUAL-ACTION ELECTRIC LOG SPLITTER to remove any moisture, wood chips, and dirt that may have accumulated on the Log Trays 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 moving the Operator Handle back forward and backwards.
- 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 Motor).

NOTICE

Do not store the log splitter in wet conditions. This can cause damage to the motor



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