

See  
Initial start-up  
instructions on page one



**PRODUCTS, INC.**

**Brave 22 and 26 Ton  
Super Rural Residential  
Vertical / Horizontal  
Log Splitter**

**Model SR0622  
Model SR0626**



Photographs show Model SR0622.

**Owner / Operator  
and Safety Manual**

# Initial Start-Up Instructions

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- Read all assembly, operating, and safety instructions.
- Complete and return the warranty card to register your log splitter.
- Write the serial number and date-of-purchase in this manual.
- Assemble the log splitter.
- Fill the hydraulic tank with the recommended type and quantity of oil. (See “Start-Up Procedure” section.)
- Fill the engine crankcase with the manufacturer’s recommended type and quantity of oil. (See “Start-Up Procedure” section.)
- Fill the engine fuel tank with fresh, clean, **lead-free** gasoline. (Do not mix oil with gasoline.)
- Bleed the air out of the cylinder before starting the log splitter. (See “Start-Up Procedure” section.)
- Make sure the trailer hitch of the towing vehicle is equipped with a 2 inch ball.

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

**Serial Number** \_\_\_\_\_

**Date-of-Purchase** \_\_\_\_\_

Please enter the serial number and purchase date of your log splitter in the space provided. Keep this manual for future reference.



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# Introduction

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The professional quality SR0622 and SR0626 Vertical/Horizontal Log Splitters are designed for tough applications in both vertical and horizontal positions. With 22 and 26 tons of splitting force, a 14 second cycle time, and a 5.5 HP or 6.5 HP engine, the SR0622 (5.5) or SR0626 (6.5) will handle most of your log splitting needs. An attractive, powder-coated finish provides the finest protection available, and Brave's rigid, quality-control and component testing help ensure years of productive, reliable service. Since 1982, the name Brave has stood for quality and reliability when it comes to log splitters and wood processing products.

Brave Products offers the finest log splitter on the market today!


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

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## Safety Alert Symbol

The safety alert symbol  is used to identify safety information about hazards that can result in personal injury.

A signal word (WARNING or CAUTION) is used with the alert symbol to indicate the likelihood and the potential severity of injury. In addition, a hazard symbol may be used to represent the type of hazard.



**WARNING** indicates a hazard which, if not avoided, **could result in death or serious injury**.



**CAUTION** indicates a hazard which, if not avoided, **might result in minor or moderate injury**.

**IMPORTANT NOTICE** indicates a situation that **could result** in damage to the log splitter, cylinder, or engine.

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

## General



To avoid personal injury or death, carefully read and understand all instructions pertaining to the Brave Products' log splitter.

Do not attempt to operate or maintain our product without fully understanding all our instructions and safety precautions. Do not operate the log splitter unless you read and understand the instructions and warnings in this manual. If any doubt or question arises about the correct or safe method of performing anything found in this or other Brave Products' manuals, contact your Brave Products' dealer or call the Sales and Service representatives at our main headquarters. Proper care is your responsibility.



Accidents can often be avoided by being alert and recognizing potentially hazardous situations. Any individuals operating, maintaining, or repairing products manufactured by Brave Products should have the necessary training, skills, and tools required to perform these functions properly and safely. The safety information in this manual serves as a basic guide in an attempt to prevent injury or death.

Brave Products cannot anticipate every possible circumstance that might involve a potential hazard. The warnings in this manual and on the product itself are, therefore, not all-inclusive. If tools, procedures, work methods, or operating techniques that are not specifically mentioned by Brave Products are used, you must satisfy yourself that they are safe for you and for others. Make sure the log splitter will not be damaged or made unsafe by any operation, lubrication, maintenance, or repair procedures that you choose.

# Safety

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DO NOT proceed if any doubt arises about the correct or safe method of performing anything found in this or other Brave Products' manuals. Seek out expert assistance from a qualified person before continuing.










## CALIFORNIA PROPOSITION 65

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















## Personal Protection

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


## Worksite Safety

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

## Operating Safety




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

## Log Splitting Safety









- ✓  Always keep your fingers away from any cracks that open in the log during the splitting operation.

# Safety






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

## Maintenance and Repair










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

## Towing



- ✓  Raise the support leg to the highest position when towing.
- ✓  ALWAYS check before towing to make certain your log splitter is correctly and securely attached to the towing vehicle. Be sure that the ball hitch you are using is the proper size for the hitch coupler on the log splitter (see "Specification" section.) Be sure the safety chains are properly hooked to the vehicle, leaving enough slack for turning.
- ✓  ALWAYS allow for added length of the log splitter when turning, parking, crossing intersections, and in all driving situations.
- ✓  ALWAYS be careful when backing up. You could jackknife your log splitter if care is not taken.
- ✓  ALWAYS disconnect your log splitter from your towing vehicle before attempting to use it.

- x  NEVER exceed 35 m.p.h. when towing your log splitter. Obey all state and local regulations when towing on state and local roads and highways. Adjust your speed for terrain and conditions, as needed. Be extra cautious when towing over rough terrain, especially over a railroad crossing.
- x  NEVER tow your log splitter when there is fuel in the engine's tank.
- x  NEVER allow anyone to sit or ride on your log splitter.
- x  NEVER carry any cargo or wood on your log splitter.

## Refueling

- ✓  ONLY refuel the log splitter outdoors in a clear area void of gas fumes or spilled gasoline.
- ✓  ALWAYS use an approved fuel container to carry gasoline.
- ✓  ALWAYS replace the log splitter gas cap and the fuel container cap securely.
- ✓  If gasoline is spilled, move the machine away from the area of the spill and avoid creating any source of ignition until the spilled gasoline has completely evaporated.
- ✓  Take a class B fire extinguisher with you when operating the log splitter in dry areas as a precautionary measure against possible flying sparks.
- ✓  Always store gasoline in an approved, tightly-sealed container. Store the container in a cool, dry place. Do not store the container in a house or near any heating appliance.
- x   Do not smoke or have open flames when refueling the engine. Do not spill fuel. If fuel should spill, quickly wipe up the spill and allow the excess to evaporate before continuing. Make sure gasoline-soaked rags are properly disposed of.
- x  DO NOT fill the gas tank while the engine is hot or running. Allow time for the engine to cool down before refueling.

## Preventing Fires

- x  NEVER operate the log splitter near a flame or spark. Oil and gasoline are flammable and can explode.
- x  NEVER smoke while operating or refueling the log splitter. Gasoline, oil, and even gas fumes can explode.

### Important Notice

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

# Assembly Instructions

## Required Tools

- Flat head screwdriver
- One 1/2" open end wrench
- Two 9/16" open end wrenches
- Two 3/4" open end wrenches
- Funnel
- Pliers
- Band cutters
- Hammer

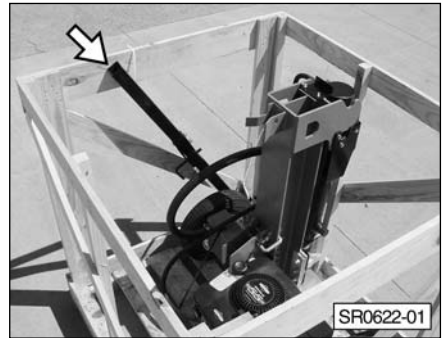
## Shipping List

The following chart contains the list of parts that should be shipped as part of the SR0622 and SR0626 Log Splitter.

Qty	Description	Qty	Description
1	Base and Rail Unit		
	<b>Hitch Assembly Parts</b>		<b>Tongue and Support Leg Assembly</b>
1	Hitch Assembly (2 inch)	1	Tongue Rail
2	Bolts (1/2-13 x 3 inch)	1	Support Leg
2	Locknuts (1/2-13)	2	Bolt (3/8-16 x 3)
2	Safety Chains	2	Locknut (3/8-16)
1	Safety Quick-Link	1	Lock Pin
1	Safety Quick-Link		

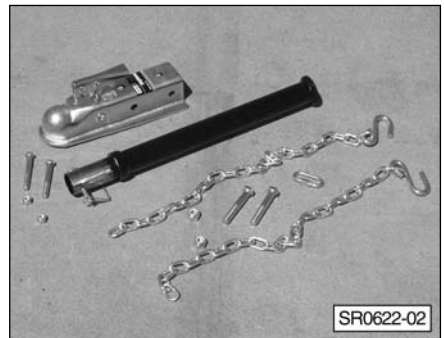
## Instructions:

1. Remove the top of the crate and cut the plastic straps that hold the tongue arm to the side. Remove the tongue arm.



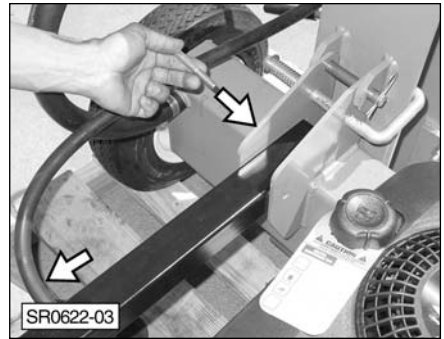
2. Remove the sides of the crate and cut the strap that holds the parts box in place. Open the parts box and identify the parts:

Hitch Assembly Kit  
Safety Chain Kit  
Support Leg and Hitch Pin  
Tongue Attachment Hardware



# Assembly Instructions

3. Position the end of the tongue arm with the smaller attachment holes (the end opposite the support leg weldment) into the base unit. Refer to photo in Step 5 to make sure the weldment holes for the support leg are properly oriented. Using the two 3/8-16 x 3" bolts and locknuts, attach the tongue arm and tighten the bolts securely with two 9/16" wrenches. Make sure the high-pressure hose runs under the tongue.

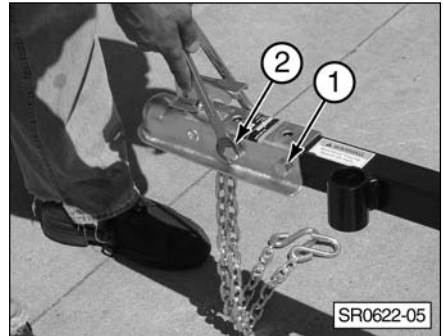


4. Link the ends of safety chains together with the safety quick-link and tighten the link's locknut with a wrench.



5. Place the hitch coupler over the tongue arm, align holes, and insert one 1/2-13 x 3" bolt and locknut (hole 1). Tighten securely using two 3/4" wrenches (see photo).

Insert the end of the quick link into the front tube of the tongue and insert the second 1/2-13 x 3" bolt (hole 2) through the link and hitch. Tighten securely.



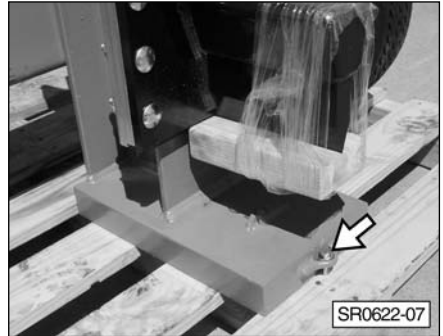
# Assembly Instructions

6. Insert the support leg into weldment on tongue arm and secure in place using the snap lock pivot pin.

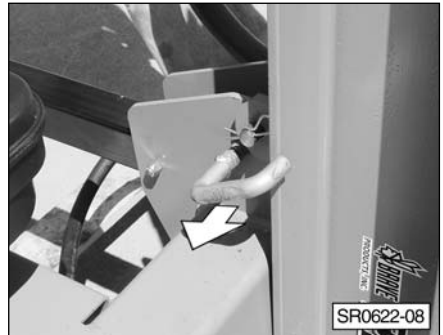
**NOTE:** The supporting leg weldment on your unit may be different from this photo. See drawing on page 30.



7. Remove the lag bolt that holds the base to the pallet.



8. Release the vertical support rail latch by pulling it out and away from the rail.

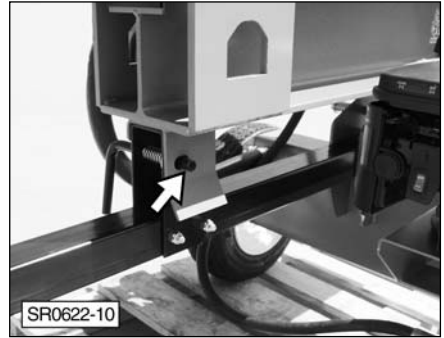


9. Carefully lower the rail assembly onto the tongue. If necessary, use your foot to steady the base from rolling.

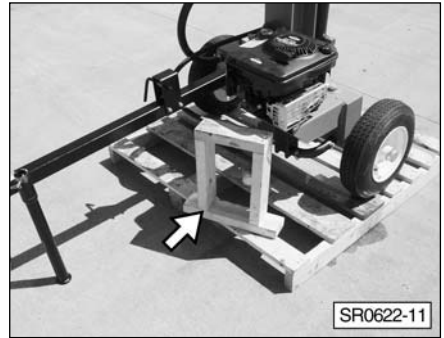


# Assembly Instructions

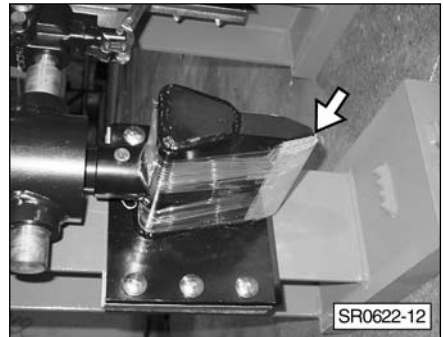
10. Make sure the rail latch pin snaps into place.



11. Remove the wooden block under the engine, then roll the log splitter off the pallet.



12. Remove the protective cardboard from the cutting blade of the splitting wedge and loosen, but do not remove the six bolts (three on each side) that secure the slide guides in place.

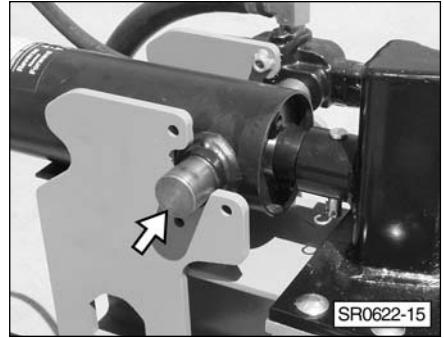


13. Remove the six bolts holding the dislodger in place and remove the dislodger.

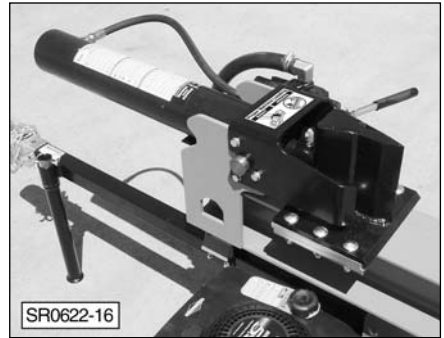


# Assembly Instructions

14. Pull back on the cylinder and lift the end so the trunnion pins on the cylinder fit into the mounting bracket.



15. Reattach the dislodger and tighten the bolts, securing the cylinder in position. Tighten the six bolts to secure the slide guides in place.



16. Your Brave Log Splitter is now completely assembled. Read the "Start-Up Procedure" in the following section before trying to start the engine. Follow the instructions to add fluids to the engine, plus hydraulic fluid to the hydraulic tank.



## Important Notice

*Follow all the instructions listed below before starting or operating your log splitter. Failure to do so may result in engine and hydraulic pump damage. Also read the Briggs & Stratton Operating and Maintenance instructions. If you do not have this manual, contact Briggs & Stratton at 800-233-3723 to obtain another one, or download a copy from their web site at [www.briggsandstratton.com](http://www.briggsandstratton.com).*

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

1. Fill the hydraulic tank with SAE 10W tractor hydraulic oil or automatic transmission fluid, such as Dextron III (3.75 gallons for the SR0622 and 4.0 gallons for the SR0626).
2. Fill the engine's crankcase with the engine manufacturer's recommended oil.
3. Lubricate the surface of slide rail with grease. This will help to prevent wear between the slide plates and the slide rail.
4. Remove the spark plug wire from the engine. This prevents the engine from starting until the hydraulic pump and cylinder are completely filled with oil. Make sure the spark plug wire is held away from the spark plug with string or other nonconductive material.
5. Push the valve control handle, with one hand, to the forward (extend) position (towards the front of the cylinder.) Pull the engine starter cord, with the other hand (approximately 15 times), until the cylinder piston moves forward. (Keep everything away from the pusher plate and slide wedge during this step.)

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

# Start-up Procedure

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## **WARNING**



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

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### *Important Notice*

*If your log splitter is equipped with a factory-installed engine, do not mix oil with the gasoline. Using mixed oil/gasoline in a four cycle engine can cause engine damage.*

6. Fill the engine's fuel tank with fresh, clean, lead-free automotive gasoline.
  7. Attach the spark plug wire and start the engine, per the manufacturer's instructions.
  8. With the engine running, push the valve control handle to the retract position and retract the cylinder piston. The cylinder valve will automatically stop the cylinder from retracting when it reaches the end of its stroke. Cycle the log splitter several times.
  9. Check the fluid level in the hydraulic tank and add oil, as needed. The tank is full when the oil level is approximately one inch from the top of the tank. Replace and tighten the fill cap.
- NOTE:** The total hydraulic system oil capacity for the SR0622 is 3.75 gallons and 4 gallons for the SR0626.
10. Your log splitter is now ready to use.

## ⚠ WARNING

**Maximum Speed Limit — 35 m.p.h.**

Your log splitter is built on a solid, unsuspended axle. To prevent damage or possible loss of vehicle control, use extreme caution when towing and do not exceed a vehicle speed of 35 mph, especially when driving on a bumpy road.

## INSTRUCTIONS:

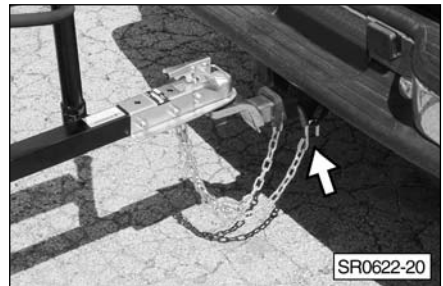
1. Position the hitch on your log splitter near the tow ball on the vehicle and pull the latch assembly UPWARD to the OPEN position.



2. Lift the tongue and move the support leg to the tow position by removing the snap lock pivot pin and inverting the leg. Insert the clip.



3. Position the hitch onto the tow ball of your vehicle and push DOWN on the latch. Pull UP on the tongue arm to make sure the hitch is secure. Place a customer supplied lock pin into the latch assembly. Attach the towing safety chains to the tow vehicle.



## ⚠ WARNING

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

# Operation

## ⚠ WARNING



Do not attempt to operate the log splitter without fully understanding all our instructions, safety precautions, and/or warnings. If any doubt or question arises about the correct or safe method of performing anything found in this or other Brave Products' manuals, contact your Brave Products' dealer or call the Sales and Service representatives at our main headquarters. Proper care is your responsibility.



Before loading and operating the log splitter, put on the proper protective gear, such as safety goggles, face shield, hearing protection (ear muffs or ear plugs), tight-fitting gloves (without drawstrings or loose cuffs), and steel-toed shoes.

When operating your log splitter, make sure you are standing in a safe operating zone, as shown in the photos below. Always pick up split logs to clear your work area. Never place any part of your body into a position that would cause an unsafe operation condition. Make sure you stand clear of the engine's exhaust. Hot exhaust is intense and can cause serious injury.

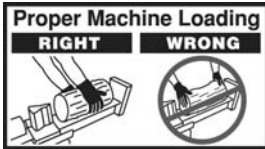
## OPERATING INSTRUCTIONS – HORIZONTAL POSITION

1. Position your log splitter on flat, solid ground and start the engine using instructions from the engine manual. If the log splitter has not been running (cold engine), warm up the engine and hydraulic system by running the engine at half throttle for three to four minutes, then advance the engine to maximum speed.
2. Place the log on the log splitter by grasping it by the sides. Center the log on the rail. Note that all logs should be 24 inches long, or shorter. Do not try to wedge a longer log between the wedge and base plate.



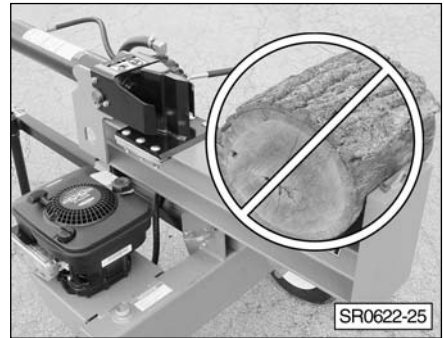
## ⚠ WARNING

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



## ⚠ WARNING

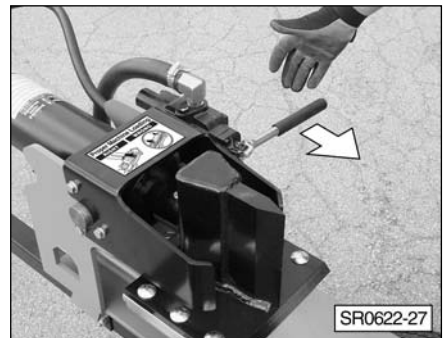
Never attempt to split wood across the grain. The log splitter was not designed for cross-grain splitting. Doing so will damage the log splitter and may cause personal injury.



3. Move the end of the log up against the base plate. If one end of the log has been cut on an angle, turn it around so the flat end is against the base plate. If you need to steady the log, hold it only on top and in the middle. Remove your hand immediately when the splitting wedge engages the log.

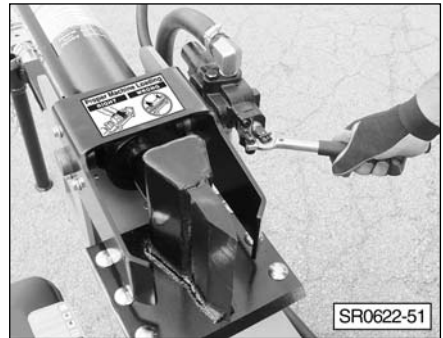


4. Using only your hand, push the control lever forward, towards the base plate. If the log moves before it is contacted by the splitting wedge, release the control lever to stop the wedge. Then reposition the log and continue splitting.

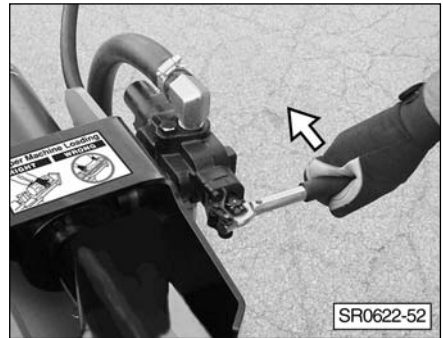


# Operation

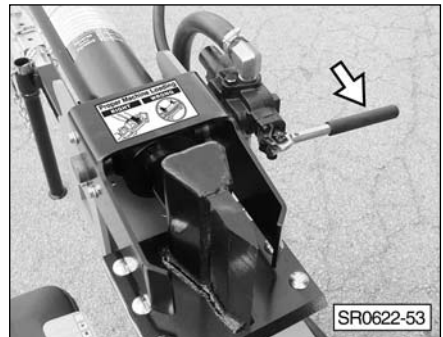
5. Hold the control lever to extend the splitting wedge until the log is split or the cylinder rod stops at its maximum travel position. STOP the forward movement at any point if you feel an unsafe condition is occurring. DO NOT reach forward and attempt to catch the split wood. Let it fall to the ground.



6. Once the wedge reaches its full forward travel or the log is split, pull back fully on the control lever to retract the cylinder.



7. It is not necessary to hold the control lever. The cylinder rod will automatically retract. When the cylinder is fully retracted, the control valve will automatically shift to a neutral position. DO NOT load another log or remove split pieces until the control handle returns to neutral. As the wedge retracts, the log disloder of the SR0622 and SR0626 is designed to remove any pieces that stick to the wedge.



## **⚠ WARNING**

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

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## **⚠ WARNING**

Do not reach across the rail to pick up split wood. This is also a very UNSAFE method, which could cause personal injury or even death.

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# Operation

## OPERATING INSTRUCTIONS – VERTICAL POSITION

1. To operate your log splitter in a vertical position, first make sure the engine is off. Position the log splitter on flat, solid ground and block the wheels to keep the log splitter from rolling. Pull the spring loaded latch to release the rail, then lift the rail to the vertical position.



2. Lock the rail in place with the vertical lock latch and start the engine using instructions from the engine manual. If the log splitter has not been running (cold engine), warm up the engine and hydraulic system by running the engine at half throttle for three to four minutes, then advance the engine to maximum speed.



3. Move the log onto the base plate under the splitting wedge, keeping your hands on the side of the log, near the middle. Center the log up against the rail, and make sure a flat end is sitting on the base plate.



## **⚠ WARNING**

Do not place your hand on top of the log when loading the log or while the log splitter is running.



4. If you must steady the log against the rail while splitting, hold it by the side, in the middle of the log.



5. Using only your hand, push DOWN on the control lever, towards the base plate. If the log moves before it is contacted by the splitting wedge, release the control lever to stop the wedge. Then reposition the log and continue splitting.



6. Hold the control lever DOWN to extend the splitting wedge until the log is split or the cylinder rod stops at its maximum travel position. STOP the forward movement at any point if you feel an unsafe condition is occurring. DO NOT reach forward and attempt to grab the split wood.



# Operation

7. Once the wedge reaches its full forward travel or the log is split, push UP fully on the control lever to retract the cylinder.



8. It is not necessary to hold the control lever. The cylinder rod will automatically retract, and when the cylinder is fully retracted, the control valve will automatically shift to a neutral position. DO NOT load another log or remove split pieces until the control handle returns to neutral. As the wedge fully retracts, the log dislodger of the SR0622 and SR0626 is designed to remove any pieces that stick to the wedge.



## 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.**

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Always replace frayed, kinked, or cracked hoses, and/or other damaged hydraulic components with Brave Products' authorized parts and components specified in the "Parts" section of this manual. Replacement parts from secondary suppliers (not original Brave replacement parts) can lead to product damage and/or personal injury, and WILL VOID THE WARRANTY.

### **⚠ CAUTION**



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

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Should it become necessary to loosen or remove any hydraulic fitting or hose, 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 manufacturers' manual for engine maintenance and repair.

## Storage

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

# Inspection and Maintenance

## Hydraulic Oil Change

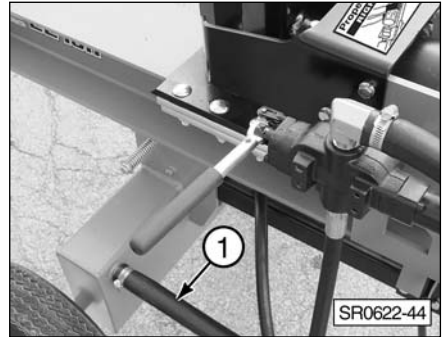
Brave Products recommends an oil change every 100 hours of operation. Refer to the “Specifications” section in this manual for the type and quantity of oil.

### *Important Notice*

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

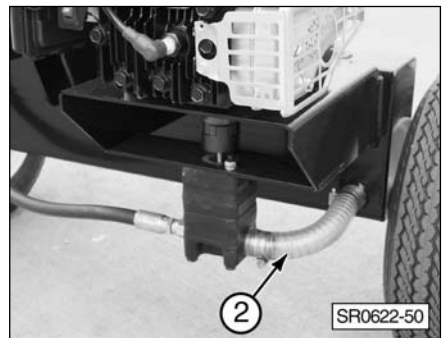
#### 1. Drain the head end of the cylinder.

- a. Remove the spark plug wire and spark plug to help reduce the back pressure on the engine and to prevent it from starting.
- b. Disconnect return hose (1) from the hydraulic tank and place it in a waste oil container. (Please properly dispose of the waste oil per local regulations.)
- c. Extend the cylinder by holding the valve handle forward and pulling on the engine’s pull start cord until oil from the return line stops flowing. This step drains the head end of the cylinder.



#### 2. Drain the hydraulic tank.

- a. Place a waste oil container under inlet hose (2).
- b. Remove the inlet hose from the pump.
- c. Slightly raise the front of the log splitter to completely drain the tank.



#### 3. Replace both hoses (1 and 2) to hydraulic tank.

# Inspection and Maintenance

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4. Remove the hydraulic tank fill cap and fill the tank with the recommended type and quantity of oil. Replace the cap.
5. Refill the cylinder.
  - a. Hold the valve handle in the retract position and pull the engine pull start cord until the rod is fully retracted. This step pulls oil into the rod end of the cylinder.
  - b. Extend the cylinder by holding the valve handle forward and pulling on the engine's pull start cord until the cylinder is completely extended. This step refills the piston end of the cylinder.
6. Start the engine and cycle the cylinder.
  - a. Replace the spark plug and spark plug wire.
  - b. Start the engine and cycle the cylinder several times.
  - c. Retract the cylinder and shut off the engine.
  - d. Recheck the hydraulic tank to make sure oil is filled within one inch from the top of the tank.

# Specifications

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## Mechanical Specifications

Slide Rail	6 inch H-beam, short rail design
Wedge	High carbon steel, compound angle
Force/Tonnage	22 ton <sup>1</sup> 26 ton <sup>2</sup>
Cylinder Stroke	24 inches
Log Opening	25 inch maximum
Cycle Time	14 seconds (approx.)
Operating Positions	Vertical/Horizontal
Wheels and Tires	High-Speed, 4.80 x 8"
Safety Chains	Standard
2" Hitch Coupler	Standard
Engine	5.5 HP vertical shaft engine <sup>1</sup> (Briggs & Stratton) 6.5 HP vertical shaft engine <sup>2</sup> (Briggs & Stratton)

## Hydraulic Specifications

Cylinder (Trunnion)	4 x 24 inch, with 1.75 inch rod <sup>1</sup> 4.50 x 24 inch, with 1.75 inch rod <sup>2</sup>
Hydraulic Tank Capacity	3.0 gallons
Hydraulic System Capacity (including cylinder, tank, and hoses)	3.75 gallons <sup>1</sup> 4 gallons <sup>2</sup>
Safety Release Control Valve	Detent, auto return
Gear Pump	Two-stage, 11 GPM
Shipping Weight	550 lbs. <sup>1</sup> 575 lbs. <sup>2</sup>

## Hydraulic Oil Specifications (non-foaming)

Above 30°F	Use AW-32, 10W (non-foaming) or ATF Dextron III
Below 30°F	Use only ATF Dextron III

<sup>1</sup> Model SR0622 only.

<sup>2</sup> Model SR0626 only.

### *Important Notice*

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

## *Important Notice*

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

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

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

1. Check the hydraulic tank to make sure the oil level is 1 inch from the top of the tank.
2. Check the coupler on pump and engine, making sure the drive keys are in place and there is no damage to the blue urethane spider.
3. Disconnect the splitting wedge from the cylinder. Grasp the hydraulic cylinder shaft and try to pull it out. If the rod comes out easily, you will need to rebuild or replace the cylinder.
4. Once you have determined that the engine-to-pump coupler is intact and the cylinder is in good condition, you will need to replace the pump.

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

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

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

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

**Problem:** The ram will not automatically retract.

1. Check the slide rail or splitting wedge for damage.
2. Check and replace the valve if not working properly.

**Problem:** Oil squirts from the fill plug during operation.

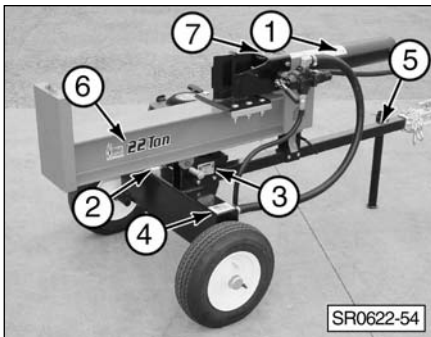
1. The oil tank may be over-filled. Drain oil to 1 inch below the top of the tank.
2. The log splitter is not level. Make sure the log splitter is on level ground.

# Decals



Make sure all decals are attached to the log splitter and/or engine, and are legible at all times. If you are missing a decal or one is not legible, call Brave Products at 800-350-8739 for a replacement.

(1)



## Operator Safety

Seguridad del operario

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CAUTION / PRECAUCIÓN

- Read Owner/Operator manual completely.  
*Lea todo el manual del propietario/operario.*
- Operate log splitter on flat, dry ground.  
*La cortadora de troncos debe estar sobre suelo firme y seco.*
- Lock rail into Vertical or Horizontal position before using.  
*(Some Iron & Oak models operate only in Horizontal position.)  
Trabe el riel en posición Vertical u Horizontal antes de usarlo.  
(Algunos modelos Iron & Oak solo usan la posición Horizontal.)*
- NO ONE under age 18 is allowed to operate log splitter.  
*NADIE menor de 18 años está autorizado a utilizar la cortadora de troncos.*
- Keep bystanders, children, and helpers at least 25 ft. away.  
*No permita que observadores, niños y ayudantes se acerquen mas de 25 pies-7,6m.*
- Wear safety glasses, tight fitting work gloves, and safety shoes.  
*Use lentes de seguridad, guantes de trabajo ajustados y zapatos de seguridad.*

WARNING / ADVERTENCIA

- Keep hands and all body parts away from splitting wedge, base plate, partially split wood, and moving parts.  
*Aleje las manos y el cuerpo de la cuna cortadora, la base de apoyo, la madera cortada parcialmente y las piezas móviles.*
- Hold logs by the sides, not the ends.  
*Tomar los troncos por los lados, no por los extremos.*
- Only one person is permitted to stabilize logs and operate the controls.  
*Solo una persona debe estabilizar los troncos y operar los controles.*
- Do not check for oil leaks with your hand. Use a cloth. High pressure hydraulic fluid can penetrate your skin, causing blood poisoning.  
*No utilice la mano para ver si hay perdidas de aceite. Use un paño. El fluido hidráulico con alta presión puede penetrar la piel y provocar un envenenamiento.*
- Never operate log splitter under the influence of alcohol or drugs.  
*Nunca opere la cortadora de troncos si ha bebido o tomado drogas.*

OPERATING INSTRUCTIONS / INSTRUCCIONES OPERATIVAS

1. Read Owner/Operator manual for complete instructions.  
*Lea el manual del propietario/operario para ver todas las instrucciones.*
2. Start engine using instructions from engine manual. Advance throttle control to maximum speed.  
*Ponga en marcha la máquina según el manual del motor. Lleve el regulador a la velocidad máxima.*
3. Grab log by sides and place onto rail, against base plate.  
*Tomar el tronco por los lados y colóquelo sobre el riel, contra la base de apoyo.*
4. If necessary, stabilize log by holding the side, never the end.  
*Si es necesario, estabilice el tronco tomándolo de un costado, no del extremo.*
5. Move control handle to FORWARD position to extend splitting wedge.  
*Coloque la manivela de control en ADELANTE para alargar la cuna cortadora.*
6. Release handle to STOP splitting wedge.  
*Libere la manivela para DETENER la cuna.*
7. Move control handle to REVERSE position to retract splitting wedge.  
*Coloque la manivela de control en REVERSO para retraer la cuna cortadora.*

CONTROL VALVE / Valvula de control

Reverse	▲	Reverso
Neutral	■	Neutro
Forward	▼	Adelante

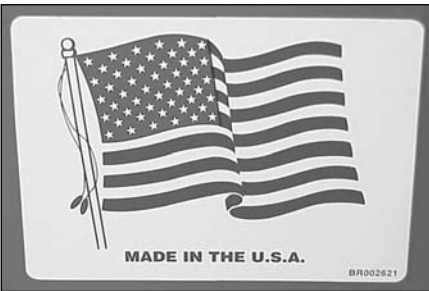
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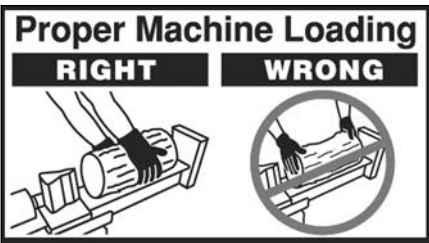
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(7)



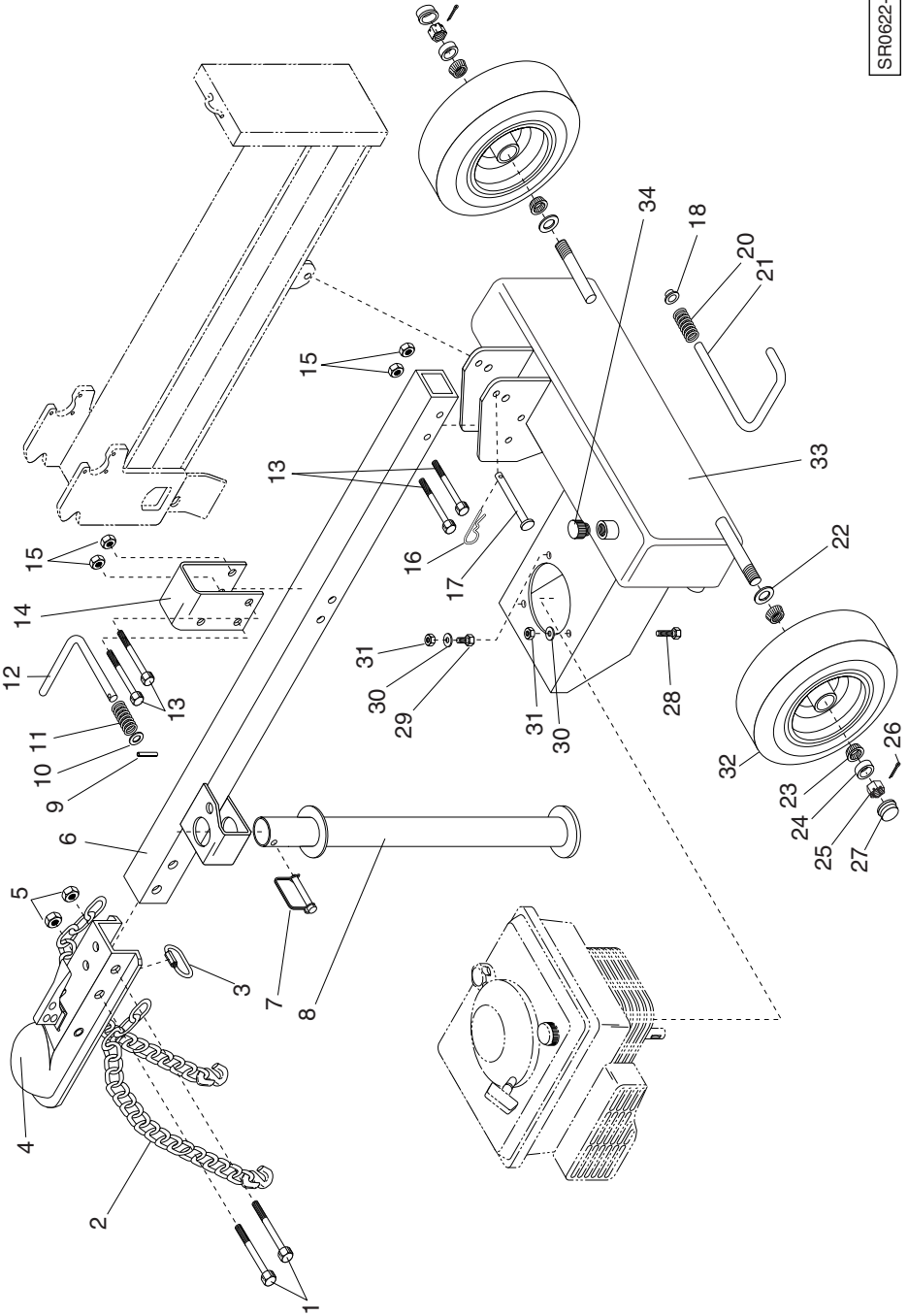
Item	Part No.	Description	Qty.
1	BR002302	Decal, Operator Safety	1
2	BR002652	Decal, Notice	1
3	BR002521	Decal, Serial Number	1
4	BR002621	Decal, Flag	1
5	BR002653	Decal, Maximum Speed	1
6	BR002622 <sup>1</sup>	Decal, 22 Ton Logo	2
	BR002624 <sup>2</sup>	Decal, 26 Ton Logo	2
7	BR002559	Decal, Proper Machine Load	1

<sup>1</sup> SR0622 (decal not shown).

<sup>2</sup> SR0626 (decal not shown).

# Parts

SR0622-01



Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	BR001203	Bolt, 1/2-13 x 3" long, G5	2	22	BR008301B	Seal, Grease, 1"	2
2	BR008508	Assembly, Chain, 3/16 x 24" lg	2	23	BR008301A	Bearing, Tapered Roller	4
3	BR008511	Clip, Quick Link Coupler	1	24	BR008301D	Washer, Thrust	2
4	BR008540	Coupler, Hitch, 2" Ball	1	25	BR008301E	Nut, Spindle	2
5	BR001321	Nut, Nylon, 1/2-13	2	26	BR008301F	Key, Cotter, 1/8 x 2" long	2
6	BR033030	Hitch Tube Weldment	1	27	BR008301G	Cap, Dust	2
7	BR001770	Pin, Snap Lock Pivot, 5/16 x 3"	1	28	BR001270	Bolt, 5/16-18 x 2-1/2" long	1
8	BR033028	Jack Leg Weldment	1	29	BR001268	Bolt, 5/16-18 x 1-1/2" long	2
9	BR001093	Pin, Roll, 3/16 x 1" long	1	30	BR001401	Washer, Flat, 5/16"	3
10	BR001409	Washer, Flat, 1/2"	1	31	BR001325	Locknut, 5/16-18	3
11	BR001094	Spring	1	32	BR008301	Tire, 4.8 x 8"	2
12	BR033006	Latch Pin	1	33	BR033015	Weldment, Tank	1
13	BR001218	Bolt, 3/8-16 x 3" long	4	34	BR001021	Plug, Fill Vented	1
14	BR033004	Bracket, Latch Plate	1				
15	BR001301	Locknut, 3/8-16	4				
16	BR001764	Clip, Hairpin, 3/32 x 2-1/2" long	1				
17	BR001769	Pin, Clevis, 5/8 x 4" long	1				
18	BR001326	Nut, Push-On, 5/8" dia. shaft	1				
19	—	—	—				
20	BR001095	Spring	1				
21	BR033013	Pin, Lock	1				



Item	Part No.	Description	Qty	Item	Part No.	Description	Qty
1	BR033016	Rail Weldment	1	22	BR001765	Pin, Cyl. Slide, 1/2 x 3" long	1
2	BR001269	Bolt, 5/16-18 x 5-1/2" long	2	23	BR001761	Clip, Hairpin, 3/32 x 1-5/8" lg	1
3	BR005075	Hose, Low Pressure Formed	1	24	BR021163	Weldment, Slide Wedge	1
4	BR004999	Clamp, Hose, No.16	2	25	BR001304	Nut, 1/2-13	6
5	BR002003	Pump, Hydraulic	1	26	BR001404	Lockwasher, 1/2"	6
6	BR001325	Locknut, 5/16-18	2	27	BR013104	Retainer, Slide	2
7	BR005074	Hose, High Pressure	1	28	BR013102	Guide, Slide, 1/2 x 1-1/2"	2
8	BR001383	Screw Set, 1/4-20 x 1/2" long	2	29	BR001259	Bolt, Carriage, 1/2-13 x 2-1/2"	6
9	BR006002A	Coupling, 7/16" inside dia.	1	30	BR001231	Bolt, 1/4-20 x 1" long	2
10	BR006002B	Spider (blue urethane)	1	31	BR033020	Bracket, Cylinder Support	1
11	BR006002E	Coupling, 7/8" inside dia.	1	32	BR001306	Nut, Nylock, 1/4-20	2
12	BR010104	Key, Square, 3/16 x 1" long	1	33	BR004002K	Fitting	1
13	BR003003 <sup>1</sup>	Engine, 5.5 HP Briggs Vertical	1	34	BR004074 <sup>1</sup>	Cylinder, 4 x 1-3/4 rod x 24" lg	1
14	BR003004 <sup>2</sup>	Engine, 6.5 HP Briggs Vertical	1		BR004075 <sup>2</sup>	Cylinder, 4-1/2 x 1-3/4 rod x 24" lg	1
15	BR005076	Hose, Low Pressure, 46" long	1	35	BR002001MK	Key, Pump Shaft	1
16	BR004119N	Hose, High Pressure	1	36	BR004117A	Lever, Control	1
17	BR001198	Bolt, 3/8-16 x 1" long	6	37	BR004215	Pin, Cotter, 3/32 x 1/2"	1
18	BR001403	Lockwasher, 3/8"	6	38	BR004214	Pin, Clevis, 1/4 x 1"	1
19	BR033014	Log Dislodger	1	39	BR004165	Link, Chain	1
20	BR005001	Clamp, Hose, No.12	2	40	BR001059	Fitting, Straight	1
21	BR001011	Fitting	1				
	BR004117	Valve, Energy	1				

<sup>1</sup> SR0622

<sup>2</sup> SR0626

# Warranty

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For one year from the date of purchase, Brave Products, Inc. will replace for the original purchaser, or repair free of charge, all parts of the Brave Products' Hydraulic Log Splitter, returned to our factory PREPAID and found upon inspection by us to be faulty, due to defects in materials or workmanship.

The warranty shall not apply to any unit which has been overloaded or mis-used or which has been installed, used, or operated contrary to our instructions, or which has been repaired or altered by anyone other than our authorized representative.

We shall not be liable for any contingent liabilities arising out of the improper function of any parts.

We make NO WARRANTY with respect to parts NOT of our manufacture, but we will carry out the terms of the warranties of their respective manufacturers.

For commercial and rental use, the warranty period is for 30 days from date of purchase.

If you need any support for this product, please call Brave Products at (800) 350-8739. Have your model and serial number on-hand before calling.

## *Important Warranty Information*

To activate your Brave Products' log splitter warranty, please fill out the information in the form below, clip out the form on the dotted line, insert into an envelope, and mail to:

Brave Products, Inc  
P.O. Box 577  
Streator, IL 61364-0577

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### **Brave Products' Log Splitter Warranty Information - Please Print -**

Model:  **SR0622**  **SR0626** SERIAL #: \_\_\_\_\_

OWNER'S NAME: \_\_\_\_\_

ADDRESS: \_\_\_\_\_

CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP: \_\_\_\_\_

Purchased From: \_\_\_\_\_

Street Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Your Signature: \_\_\_\_\_ Date: \_\_\_\_\_



# Optional Attachment

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## Safety Flag Kit (BR012104)



- ✓ Improves visibility of log splitter when backing up or towing.
- ✓ Heavy-duty tapered fiberglass pole won't bend over at towing speeds.
- ✓ Installs in minutes, no drilling required.
- ✓ Mounting instructions included.





**Brave Products, Inc.**  
**410 W. Broadway Ave.**  
**Streator, Illinois 61364-0577**  
**Phone: 815-672-8861 or 800-350-8739**  
**Fax: 815-672-9073**  
**E-mail: [sales@braveproducts.com](mailto:sales@braveproducts.com)**

**Web Site: [www.braveproducts.com](http://www.braveproducts.com)**

**SR0622/SR0626**  
**05/07**