

swisherinc.com

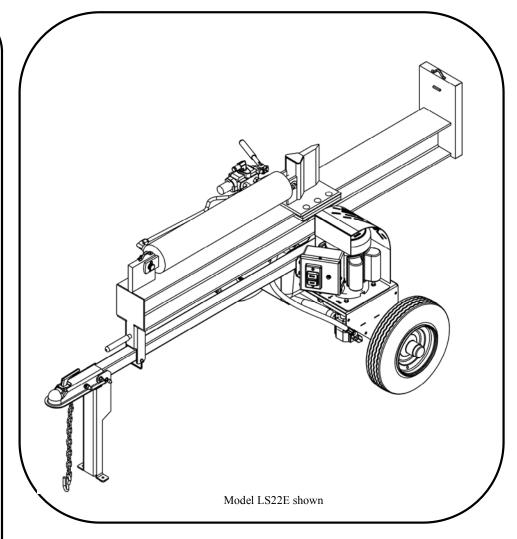
OWNER'S MANUAL

MODEL NO.

STARTING SERIAL #:

L115-001001

LS22E



ELECTRIC LOG SPLITTER

IMPORTANT

Read and follow all Safety Precautions and Instructions before operating this equipment.

Rev 15-001

Safety
Assembly
Operation
Service and Adjustment
Repair Parts

1602 CORPORATE DRIVE, WARRENSBURG, MISSOURI 64093 PHONE 800-222-8183 FAX 660-747-8650 EMAIL CustomerCare@SwisherInc.com

Manufacturing quality lawn care equipment since 1945

Made In The

USA

of US and Global Parts

LIMITED WARRANTY

The manufacturer's warranty to the original consumer purchaser is: This product is free from defects in materials and workmanship for the period's shown below beginning from the date of purchase by the original consumer purchaser. We will repair or replace, at our discretion, parts found to be defective due to materials or workmanship. This warranty is subject to the following limitations and exclusions:

Hydraulic System 1 Year Materials and Workmanship 3 Years

Commercial Use This unit is for residential use only and is not intended for commercial

use.

Limitation This warranty applies only to products which have been properly

assembled, adjusted, and operated in accordance with the instructions contained within this manual. This warranty does not apply to any product of Swisher that has been subject to alteration, misuse, abuse, improper assembly or installation, shipping damage or to normal wear of

product.

Exclusions Excluded from this warranty are normal wear items, normal or routine

adjustments, and normal or routine maintenance.

In the event you have a claim under this warranty, you must return the product to an authorized service dealer. All transportation charges, damage, or loss incurred during transportation of parts submitted for replacement or repair under this warranty shall be borne by the purchaser. Should you have any questions concerning this warranty, please contact us toll-free at 1-800-222-8183. The model number, serial number, date of purchase, and the name of the authorized Swisher dealer from whom you purchased the splitter will be needed before any warranty claim can be processed.

THIS WARRANTY DOES NOT APPLY TO ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES AND ANY IMPLIED WARRANTIES ARE LIMITED TO THE SAME TIME PERIODS STATED HEREIN FOR ALL EXPRESSED WARRANTIES. Some states do not allow the limitation of consequential damages or limitations on how long an implied warranty may last, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may have other rights, which vary from state-to-state. This is a limited warranty as defined by the Magnuson-Moss Act of 1975.

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SAFETY PRECAUTIONS



This Safety Alert Symbol indicates important messages in this manual. When you see this symbol, carefully read the message that follows and be alert to the possibility of personal injury.

Read this manual completely. This machine can amputate hands, feet, and throw objects. Failure to observe the following safety instructions could result in serious injury or death.



WARNING: This unit is powered by ELECTRICTY, USE CAUTION AT ALL TIMES.

- NEVER open the switch box or motor cover. Never attempt any electrical repairs yourself. If in doubt, consult a qualified electrician or customer service at 1-800-222-8183.
- NEVER operate the log splitter in wet conditions.
- NEVER operate the log splitter if there is an electrical hazard present.
- ALWAYS firmly grasp the power cord plug when plugging or unplugging the cord from the power source not the cord itself.
- NEVER operate the log splitter unless the power cord is plugged into a properly grounded GFI OR GFCI outlet, that supplies 100-120V power, and is protected with a minimum 20 AMP circuit breaker.
- NEVER pull on the cord to move the log splitter.
- IT IS NOT recommended to use an extension cord along with the factory installed 25ft cord.
- NEVER operate the log splitter with a damaged power cord.
- ALWAYS replace damaged power cord immediately.
- ALWAYS keep the power cord away from excessive heat, oil, WATER, and sharp objects.
- NEVER operate log splitter in wet or rainy conditions and DO NOT allow the unit to be exposed to water in any way.



DANGER: Your log splitter was built to be operated according to the rules for safe operation in this manual. As with any type of power equipment, carelessness or error on the part of the operator can result in serious injury. If you violate any of these rules, you may cause serious injury to yourself or others.

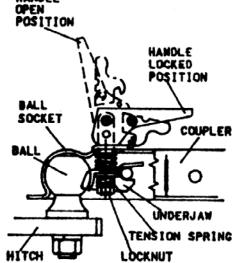
- Read and understand the manual. Learn to operate this equipment in a safe manner. Familiarize yourself with all of the controls in a safe environment before starting to work with this machine.
- DO NOT under any circumstances alter this log splitter. This equipment was designed and engineered in accordance with operating instructions. Altering this equipment, or using this equipment in such a way as to circumvent its design capabilities and capacities, could result in serious injury or fatality and WILL VOID THE WARRANTY.
- Allow ONLY responsible adults who have read this manual to operate this machine. NEVER allow children to operate this machine.
- NEVER operate your splitter on wet, muddy, or icy surfaces. KEEP work area clean of split wood. Safe footing is essential in preventing accidents.
- ONLY operate splitter on level ground with wheels blocked, not on the side of a hill. It could tip, or rolling logs, poor footing, etc. could cause an accident.
- NEVER operate your splitter near a flame or spark. Hydraulic oil is flammable.
- NEVER leave your splitter unattended with the engine running. Shut off the engine if you are leaving your splitter, even for a short period of time. Someone could accidentally activate the ram and be injured.

SAFETY PRECAUTIONS

- NEVER operate or allow someone to operate this equipment while under the influence of alcohol, drugs or medication. Being coherent is essential for safety.
- NEVER use splitter for any other purpose than splitting wood. Any other use can result in injury. Your splitter is a precision piece of power equipment, not a toy. Therefore, exercise extreme caution at all times.
- ONLY a single operator is to load and operate the log splitter. KEEP all others, including pets and children, a minimum of 20 feet away from your work area. More accidents occur when more than one person operates the log splitter than any other time.
- ALWAYS wear protective gear such as safety goggles, protective hearing device, steel-toed shoes, and tight-fitting gloves without drawstrings or loose cuffs.
- NEVER wear loose clothing or jewelry that can be caught by moving parts of the splitter and pull you into it. Keep hair away from moving parts.
- ONLY use your hands to operate the control lever. NEVER use foot, knee, rope or any extension device.
- Split ONLY one log at a time. NEVER attempt to split two logs on top of each other.
- NEVER place hands or feet between log and splitting wedge or between log and ram during forward or reverse stroke. ALWAYS keep fingers clear of splits that open in log during splitting operation.
- DO NOT straddle or reach across the splitting area while operating the splitter.
- DO NOT step over splitter. You may trip or accidentally activate the splitting wedge. Walk around to get to the other side.
- NEVER attempt to load splitter while splitting wedge is in motion. When loading log splitter, place hands on the sides of the log, not the ends.
- NEVER attempt to split wood across the grain. Wood may burst or fly out of your splitter and result in serious injury.
- Both ends of the log should be cut as squarely as possible to prevent the log from sliding out of the splitter during operation. Log length should be kept to 25 1/2" or less.
- NEVER operate your splitter while it is attached to the tow vehicle.
- BEFORE towing, be certain that the splitter is securely attached to the towing vehicle and that the support leg, beam, cylinder and power cord are secured in there respective towing positions.
- NEVER allow persons to ride on splitter. DO NOT carry any cargo or wood on your splitter. It may fall
 off and cause an accident.
- DO NOT loosen or remove any hydraulic fitting, line or reservoir cap while your splitter or engine is running.
- Fluid escaping from a very small hole can almost be invisible. DO NOT check for leaks with your hand. See maintenance section for instructions. IF injured by escaping fluid, see a doctor at once. Serious infection or reaction can develop if proper medical treatment is not administered immediately.
- DO NOT operate your splitter in poor mechanical condition or when it is need of repair.
- ALWAYS disconnect the power cord to prevent accidental starting the motor when setting up, adjusting
 or repairing.

TOWING SAFETY

- Be sure support leg is in the travel position and coupling secure. This must also be retracted so it does not interfere while towing. Retract support leg by removing pin, pivoting up, and replacing pin.
- Never exceed 45 MPH while towing your splitter. Be extra cautious when traveling over rough terrain, especially over railroad tracks.
- Always be careful while backing your splitter. You could jackknife your log splitter if not careful.
- Before using splitter, disconnect it from tow vehicle.
- See tire and wheel specifications for PSI while towing.
- Be aware of the extra length of splitter while turning, parking, crossing intersections, and in all driving situations.



OPERATION INSTRUCTIONS POSI-LOCK COUPLER

ADJUST COUPLER LOCKING PRESSURE ON BALL BEFORE USE. PLACE HANDLE IN LOCKED POSITION WITH BALL IN COUPLER. TIGHTEN LOCKNUT AGAINST TENSION SPRING SO THAT COUPLER IS NOT LOOSE ON BALL. CORRECT ADJUSTMENT WILL ALLOW HANDLE TO BE RELEASED WITH MODERATE PRESSURE APPLIED TO HANDLE.

TO OPEN, PULL UP ON COUPLER HANDLE AND ROTATE FORWARD. PLACE COUPLER ON BALL WHEN BALL IS COMPLETELY NESTED IN BALL SOCKET, ROTATE COUPLER HANDLE BACKWARD UNTIL HANDLE IS IN LOCKED POSITION.

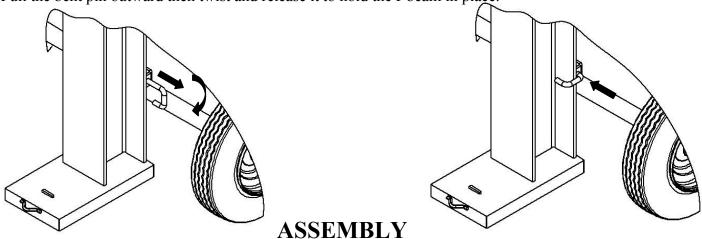
AFTER TOWING FOR 50 MILES, CHECK COUPLER FOR TIGHTNESS ON BALL. ALWAYS CHECK TIGHTNESS BEFORE TOWING. BE SURE COUPLER HANDLE IS IN LOCKED POSITION.

WARNING:

NEVER EXCEED WEIGHT CAPACITY AND ALWAYS USE SAFETY CHAINS. ALWAYS USE CORRECT BALL SIZE, MAKING SURE BALL IS COMPLETELY INSERTED INTO COUPLER. LOCK COUPLER HANDLE SECURELY BEFORE TOWING. ALWAYS CHECK FOR DAMAGES AND REPLACE IF DAMAGED. AVOID SHARP TURNS AND STEEP VERTICAL ANGLES WHEN TOWING.

When using the Log Splitter in the vertical position, make sure the beam latch is engaged as shown on page 6.

Pull the bent pin outward then twist and release it to hold the I-beam in place.



This log splitter has been mostly assembled at the factory. Refer to uncrating and assembly instructions to complete the final assembly step. Refer to the drawings and part lists should it become necessary to disassemble the unit for repair or replacement of parts.

Inspect all components for damage. If you believe you have a damaged part please contact customer service immediately at 1-800-222-8183.

WARNING: Exercise extreme caution, as parts are very heavy. Sufficient persons or mechanical handling equipment should be used.

OPERATION

INTENDED USE: This log splitter is intended and designed to only split wood. NEVER use for any other purposes. Doing so can cause injury or VOID THE WARRANTY.

WARNING: DO NOT START OR RUN THE LOG SPLITTER WITHOUT OIL IN THE HYDRAULIC RESERVOIR.

FILLING THE HYDRAULIC RESERVOIR

Fill the hydraulic reservoir to the top mark on the dipstick or, depending on your Log Splitter model, to the lower fill line of the reservoir with Dexron® III / Mercon® automatic transmission fluid, 10W AW hydraulic fluid or Pro-Mix™ AW-32 Hydraulic oil. After the hydraulic reservoir is filled correctly with oil, turn the motor on at the power switch. The hydraulic pump should prime itself. While running, move the hydraulic valve lever toward the wedge. This will cause the cylinder to extend and expel air. When the cylinder is fully extended, retract it. Repeat this procedure several times. (An erratic movement of the cylinder and wedge indicates that there is air in the system). Once the cylinder has a smooth and constant speed indicating that all air has been expelled, shut the system off and refill the reservoir until the fluid is in the safe operating range as specified by the marks on the dipstick.

START UP

WARNING: DO NOT START OR RUN THE LOG SPLITTER WITHOUT OIL IN THE HYDRAULIC RESERVOIR.

STARTING INSTRUCTIONS

- 1) Check to make sure the hydraulic reservoir is filled to the correct operating level with the check gauge available in the parts bag.
- 2) Inspect the ground or surface that you will be working on and make sure it is level and free of obstruction or slippery areas.
- 3) Plug in the power cord to a properly grounded 110-120V power source that is protected by a dedicated 20 amp circuit breaker. When plugging in the power cord ensure that the cord is free of obstruction and is not going to be in a position where a log could fall on it or become submerged in water.
- 4) Turn on the motor by pushing the START button located on the control panel of motor. Cycle the cylinder several times to ensure the unit is working properly before starting splitting. There should be no erratic behavior by the cylinder after the third full stroke. There should be no noticeable leaks or excessive vibration or noise coming from pump/motor area.

OPERATION

SPLITTER OPERATION

- 1. Set up the log splitter in a clear, level area and block the wheels.
- 2. Place a log on the beam, against the foot plate. Make sure the log is securely on the foot plate and up against the beam.
- 3. Depress the valve lever so that the cylinder will drive the wedge into the log. Extend the cylinder until the log splits or to the end of its stroke. If the log has not completely split after the cylinder has reached the end of its extension, retract the cylinder. NOTE: Leaving the valve in the "actuate" position at the end of the stroke may damage the pump. Always use extra care when splitting logs with ends that are not square.

NOTE: To extend the life of the hydraulic cylinder, avoid "BOTTOMING OUT" the cylinder.

TOWING SAFETY

This unit should not be towed on any street, highway, or public road without checking the existing federal, local, and state laws. Any licensing or modifications such as taillights, etc., need to comply with existing federal, local, or state vehicle requirements is the sole responsibility of the purchaser. Obey all regulations when towing on public roads and highways. See also **SAFETY PRECAUTIONS**.

Secure Power Cord to unit before towing the unit, to ensure that is does not become tangled or dragged behind the vehicle.

Be careful when backing up. You can easily jackknife your splitter.

TOWING AT NIGHT

The requirements for taillights are based on States regulations. The customer is responsible for meeting the requirements in their area.

If a "Statement of Origin" is required in your state, see your local dealer to receive one.

HYDRAULIC SAFETY

The hydraulic system on your splitter requires careful inspection along with the mechanical parts. Be sure to replace any frayed, kinked, cracked or otherwise damaged hydraulic components. Just because it isn't leaking today doesn't mean that it will not fail tomorrow.

Fluid escaping from a very small hole can almost be invisible. Do not check for leaks with your hand. Escaping fluid under pressure can have sufficient force to penetrate skin causing serious personal injury or even death. Leaks can be detected by passing a piece of cardboard or wood over the suspected leak and looking for discoloration.

IF injured by escaping fluid, see a doctor at once. Serious infection or reaction can develop if proper medical treatment is not administered immediately.

Should it become necessary to loosen or remove any hydraulic fittings, lines or reservoir cap, be sure to relieve all pressure by shutting off the motor and moving the control handle back and forth several times.

NEVER remove the cap from the hydraulic tank or reservoir while the unit is running. Hot oil under pressure could result in serious injury. See also **SAFETY PRECAUTIONS.**

The pressure relief valve on your splitter is preset at the factory. DO NOT adjust the valve. Only a qualified technician should perform this adjustment.

220V Single Phase Power Option

This unit is equipped with a dual voltage motor that is capable of being powered by 220V single phase as well as 110V single phase.

To change the unit to 220V single phase you will need to have a certified/qualified electrician install a proper 220V single phase plug and cord to the log splitter.

NEVER modify or alter the wiring on the log splitter yourself. ONLY certified/qualified electricians should do so.

MAINTENANCE & STORAGE

WARNING:

Always check the oil level of the hydraulic reservoir before operation. Operating without an adequate oil supply will cause severe damage to the pump. Change the hydraulic fluid in the reservoir after every 100 hours of operation.

Periodically check that all nuts, bolts, screws, clamps and fittings are tight and secure.

To keep your splitter in top working condition perform all recommended maintenance procedures before you use your splitter.

Be aware of the environment when disposing of used petroleum products. Please dispose of used hydraulic fluid, and any byproducts from the maintenance of your splitter at approved recycling centers.

Should it become necessary to disassemble the unit for repair or replacement of parts, refer to the drawings and parts list on the following pages. Exercise extreme caution, as some parts are very heavy and will require sufficient persons or mechanical handling equipment.

Your Swisher Log Splitter has been produced with components designed specifically to this machine. Although standard springs, hardware, etc. may look similar to parts used on other machinery, they may in some cases be made of a different construction and/or materials. All replacement parts must meet manufacturer's specifications.



The operation of any splitter can produce foreign objects to be thrown into the eyes, resulting in severe eye damage. Always wear certified safety glasses or wide-vision safety goggles over spectacles before staring any splitting machine and while operating such a machine.



The operation of any splitter produces sound waves that are damaging to the human ear. Ear protection is recommended.



SAFETY DECALS

Replace decals immediately if damaged.



20067 - DECAL - ELECTRICAL HAZARD< DISCONNECT

NOTICE ADD HYDRAULIC OIL

BEFORE OPERATING THIS EQUIPMENT!

12532 - DECAL - ADD HYDRAULIC OIL



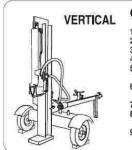
20066 – DECAL – ELECTRICAL HAZARD

NOTICE HYDRAULIC FILL PLUG Maintain hydraulic oil level in safe opeating range between marks on dipstick. Use a Universal hydraulic fluid or Dextron III Transmission fluid. 0012

12494 - HYDRAULIC FILL PLUG **DECAL**



12549 - DO NOT EXCEED 45 MPH **DECAL**

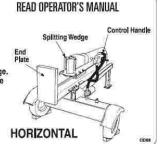


OPERATOR'S INSTRUCTIONS

- 1. Place log splitter on flat, dry, solid ground.
- Block tires to prevent rolling.
 Set the engine throttle at maximum speed.

movement.

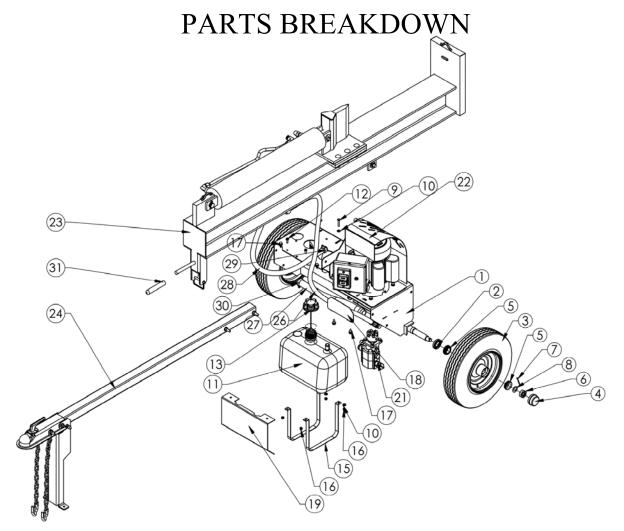
- Place the log against the end plate.
 Stabilize the log when needed on its side, NEVER on the end, between the log and the splitting wedge. 6. Only one adult should stabilize the log and operate
- the control. 7. Move the control handle in the splitting direction 8. Release the control handle to stop the wedge
- Move the control handle opposite the splitting direction to return the wedge,



12492 – OPERATOR INSTRUCTION **DECAL**



11427 - DANGER DECAL

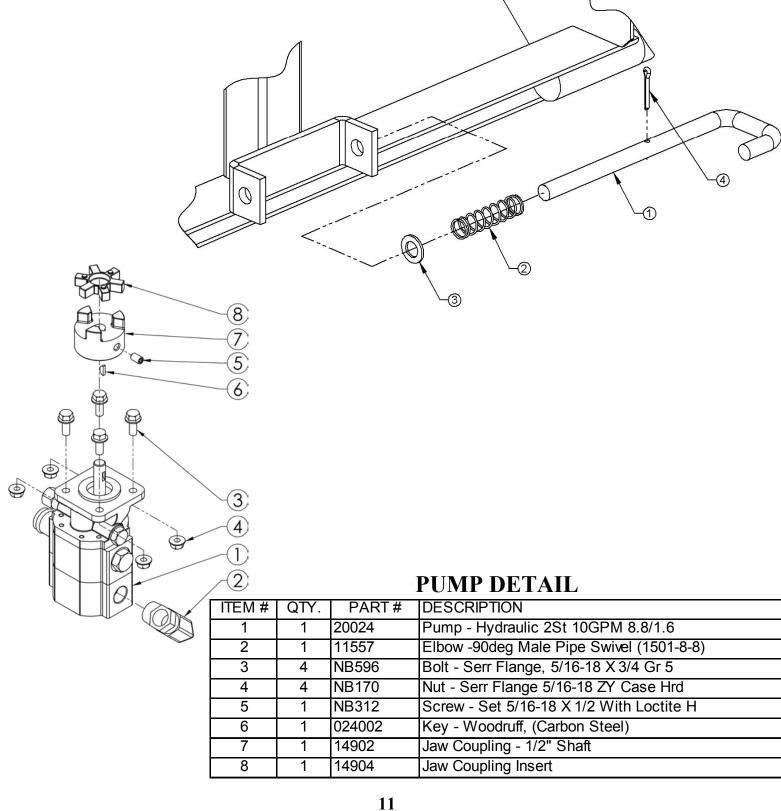


ASSEMBLY DETAIL

ITEM#	OTY	PART#	DESCRIPTION
1	1	18824*	Weldment - LS Frame
2	2	2203S	Seal - Wheel Hub Bearing
3	2	7296K	Tire/Wheel, Log Splitter; Blk
4	2	2203DC	Cover - Dust, Wheel Hub
5	4	2203B	Bearing - Wheel Hub
6	2	2203CN	Nut - Castle 3/4-16, .625 Tall, Grade 2
7	2	NB633	Pin - Cotter, 1/8 X 2(Ext Prng Crbn Stl)
8	2	NB179	Washer - 3/4 ID X 1 1/4 OD 18 GA ZY
9	2	NB162	Bolt - HTC 1/4-20 X 1 1/2 GR5 ZY
10	4	NB274	Washer - SAE Flat 1/4 ZY
11	1	18419	Tank - 2.5 Gallons w/ Fitting, w/o cap
12	2	NB690	Bolt - Serr Flange, 1/4-20 X 3/4 GR5 ZY
13	1	19136	Cap - Hydraulic Tank, Vented
15	2	18418	Support - Tank Strap
16	2	NB180	Nut - Nyloc 1/4-20
17	2	26X249	Screw312-18 X .75 Black Zinc
18	1	18443*	Guard - Pump & Motor Coupler
19	1	18747*	Guard - Tank, LS
21	1	N/A	SEE PUMP DETAIL (PAGE 11)
22	1	N/A	SEE MOTOR DETAIL (PAGE 12)
23	1	N/A	SEE BEAM DETAIL (PAGE 13)
24	1	N/A	SEE TONGUE DETAIL (PAGE 14)
NOT SHOWN	1	N/A	SEE BEAM LATCH DETAIL (PAGE 11)
26	1	7289	Hose - Hydraulic, 50"
27	1	18422	Hose - Suction 1" X 18.5"
28	1	18421	Hose - Return, 3/4" X 47"
29	2	LS5001	Clamp - Hose No. 12 (11/16" X 1 1/2")
30	2	LS4999	Clamp - Hose No. 16 (1 1/16" X 2")

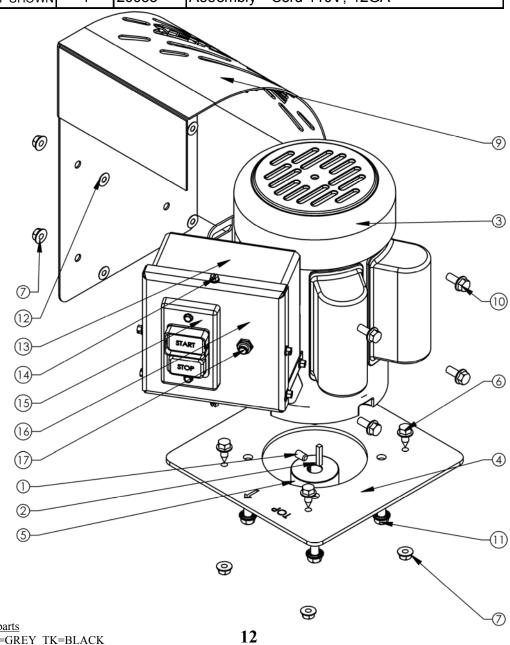
BEAM LATCH DETAIL

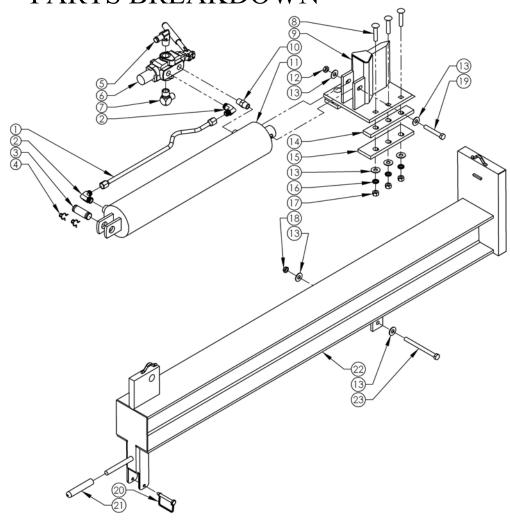
ITEM #	QTY.	PART#	DESCRIPTION
1	1	18821	Pin - Beam Latch; ZP
2	1	18822	Spring - Compression, 1/2 ID x 2-1/2" ZP
3	1	18823	Washer - Flat, 1/2"ID-12GA ASTM A325; ZY
4	1	NB126	Pin - Cotter, 1/8 X 1, Crbn Stl Ext Prng



ENGINE DETAIL

ITEM #	QTY.	PART#	DESCRIPTION
1	1	NB312	Screw - Set 5/16-18 X 1/2 With Loctite H
2	1	9030	Key Stock - 3/16 X 1 Under Size Pln Fnsh
3	1	20010	Motor - Electric 2HP 110V
4	1	20011*	Plate - Adapter, Engine Mount
5	1	20015	Coupler625" ID
6	4	26X216	5/16-18 X 3/4 Rolock Hex Whiz w/loctite
7	8	NB170	Nut - Serr Flange 5/16-18 ZY Case Hrd
9	1	20012*	Weldment - Engine Cover
10	4	NB596	Bolt - Serr Flange, 5/16-18 X 3/4 Gr 5
11	4	20058	Bolt - Serr Flange, 3/8-16 X 1/2 GR5 ZY
12	4	NB194	Washer - Nylon 1/4
13	1	20022*	Bracket - Switch Box, Top
14	8	024206	Screw - 12 X 1/2 Hex Self Tap
15	1	20017	Switch - On/Off 110V 30 AMP
16	1	20021*	Cover - Switch Box
17	1	20016	Breaker - Circuit, 20AMP
NOT SHOWN	1	20033	Assembly - Cord 110V, 12GA

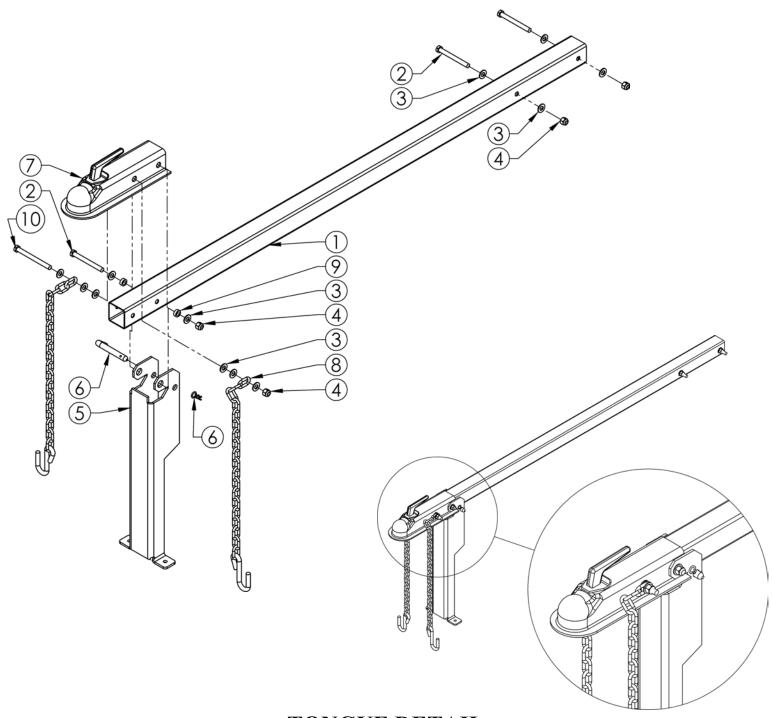




BEAM DETAIL

ITEM #	QTY.	PART #	DESCRIPTION
1	1	7288*	Line - Assembly, Stationary
2	2	7291	Elbow - Hydraulic
3	1	7293	Pin - Cylinder to Beam
4	2	NB642	Cotter - Hairpin .093 X 1-13/16
5	1	7329	Fitting - Line Return
6	1	7287*	Valve - Control
7	1	7387	Fitting - Valve Inlet
8	6	NB643	Bolt - Carriage 1/2-13 X 2 1/2
9	1	14622*	Wedge Weldment
10	1	7292	Pipe Nipple
11	1	7384*	Cylinder - 4 X 24 X 1.75
12	1	NB121	Nut - Jam Lock, 1/2-13 2-Way
13	10	NB555	Washer - USS Flat, 1/2
14	2	14619*	Spacer - Wedge
15	2	14620*	Plate - Bottom Wedge
16	6	NB508	Washer - Lock, 1/2
17	6	NB213Z	Nut - 1/2-13
18	1	NB688	Nut - Nyloc Jam, 1/2-13
19	1	12669	Bolt - 1/2-13 X 3 1/4
20	1	H11	Pin - Safety Hitch 3/8 X 2 1/2
21	1	18748	Grip - Lift Handle
22	1	14900*	I-Beam Weldment
23	1	NB151	Bolt - 1/2-13 X 6
NOT SHOW N	1	12578	Cap - Plastic

13

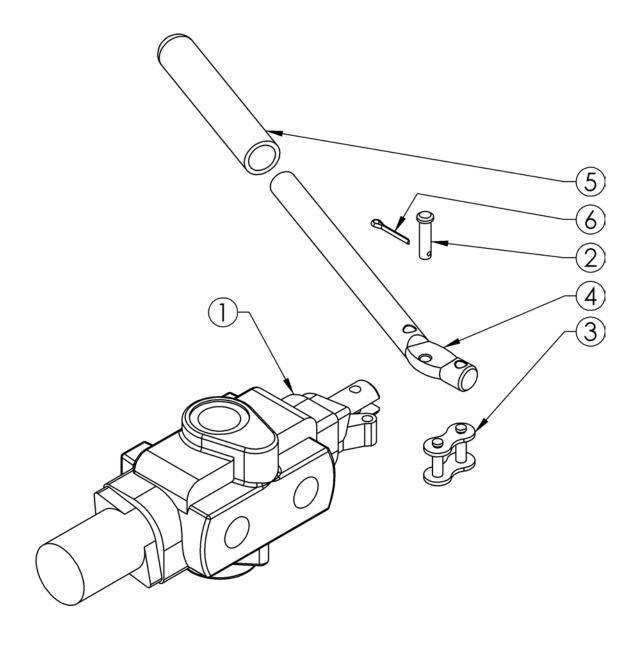


TONGUE DETAIL

TOTIGOLDETTILL			
ITEM #	QTY.	PART#	DESCRIPTION
1	1	18458*	Tongue - Log Splitter
2	3	NB649	Bolt - 3/8-16 X 3 1/2 GR5 ZY
3	12	NB272	Washer - SAE Flat 3/8 ZY Carbon Steel
4	4	NB182	Nut - Nyloc 3/8-16 ZY
5	1	14924*	Stand - Folding
6	1	NB606	Pin - Bent, 1/2 X 3 with Hair Pin ZY
7	1	7365	Coupler - 2" Ball
8	2	7366	Chain - Safety, W/S Hook Zp
9	2	7840Z	Guide - Latch Pin Bushing
10	1	NB645	Bolt - 3/8-16 X 4 HCC GR5 ZY

VALVE DETAIL

ITEM #	QTY.	PART#	DESCRIPTION
1	1	7287*	Valve - Control; Splitter, Painted
2	1	NB522	Pin - Clevis, 1/4 X1
3	1	7424	Link - Master
4	1	7423	Handle - Valve
5	1	7425	Grip - Valve Handle
6	1	18892	Pin - Cotter, 3/32 X 1/2



TROUBLESHOOTING

Problem	Cause	Remedy/Action	
Engine fails to start	1. Power cord is not plugged	1. Insure power cord is plugged in securely to	
Engine fails to start.	in.	a 110-120V source.	
	2. Circuit breaker on log	2. Press reset button located next to on/off	
	splitter control box is	switch. If unit does not reset wait two minutes	
	tripped.	and repeat.	
	Power cord is damaged or faulty.	3. Have a qualified electrician or service center replace power cord with Swisher factory cord.	
	Circuit breaker at power source is thrown.	4. After letting unit cool for 2-3 minutes reset breaker.	
	5. Faulty or disconnected power switch.	5. Have a qualified electrician or service center replace power switch with Swisher factory switch.	
	6. Faulty electric motor.	6. Have a qualified electrician or service center replace electric motor with Swisher factory cord.	
Cylinder rod will not extend or contract.	Low hydraulic fluid.	1. Fill hydraulic tank to correct fluid level.	
	2. Hydraulic lines blocked.	2. Flush and clean hydrualic system.	
	3. Damaged or broken pump	See authorized service center.	
	4. Damaged control valve.	4. See authorized service center.	
Cylinder rod is slow or erratic while extending and contracting.	Low hydraulic fluid.	Fill hydraulic tank to correct fluid level.	
	Contaminated hydraulic fluid.	2. Drain fluid, flush system, and refill.	
	Excessive pump inlet vacuum.	Make certain pump hoses are clear and unblocked. Make certain hose in not collapsing under suction.	
	4. Damaged pump.	See authorized service center.	
	5. Damaged control valve.	5. See authorized service center.	
	6. Internal cylinder damage.	6. See authorized service center.	
Leaking Cylinder	1. Broken seals.	See authorized service center.	
	Scored cylinder.	See authorized service center.	

MAINTENANCE LOG

Date of Service	Service Performed	Notes

SPECIFICATIONS

MODEL LS22E		
Peak Splitting Force	22 Tons*	
Motor	110V 2HP Electric Motor	
Splitting Positions	Horizontal and Vertical	
Cylinder Size	Ø4" X 24"	
Pump	2 Stage	
Pump Specs	10 Gallons Per Minute	
Valve	Auto Return	
Drive System	Direct Drive	
Hydraulic System Fluid Capacity	11-13 Quarts	
Maximum Log length	25 1/2"	
Tire Specs	4.00 X 4.80 X 8 with High Speed Bearings	

^{*}Splitting force rating is consistent with the current industry standard for calculation.







SWISHER HISTORY

Back before electricity came to rural Missouri Max Swisher was producing lawn mowers from his mother's chicken house. Max never liked to mow grass. He installed a gearbox on his family's lawn mower creating a self-propelled unit. By tying one end of a rope to the mower and the other end to a tree in the center of the yard the mower circled the tree, shortening the rope and guiding the mower in concentric circles. Max enjoyed relaxing under a shade tree while his invention did all the work.

Max had designed his first self-propelled rotary lawn mower to do his dirty work for him. Neighbors noticed his new invention and began asking him to make more. Today, 60 years later, Swisher is still producing innovative lawn and garden and ATV/UTV equipment designed to give us all more "relaxing in the shade" time.

Swisher products have been featured nationally on television programs such as Regis and Kathie Lee and seen in publications like <u>ATV Magazine</u>, <u>Country Journal</u>, <u>Popular Mechanics Magazine</u> and others. In January 2000 <u>Popular Mechanics Magazine</u> named Max's zero turning radius riding mower one of the 20th century's top household inventions.

Swisher offers value and function in its products to meet your grounds maintenance needs.

CELEBRATING OVER 70 YEARS OF INNOVATION SINCE 1945



OWNER'S MANUAL

MODEL NO.

LS22E

LOG SPLITTER

HOW TO ORDER REPAIR PARTS:

Each Log Splitter has its own serial number. Each engine has its own serial number.

All Log Splitter parts listed herein may be ordered directly from Swisher, your nearest Swisher dealer, or from our website

All engine parts may be ordered from the nearest dealer of the engine supplied with your log splitter. Parts subject to change without notice.

WHEN ORDERING PARTS, PLEASE HAVE THE FOLLOWING INFORMATION AVAILABLE:

- * PRODUCT SWISHER LOG SPLITTER
- * SERIAL NUMBER _____
- * MODEL NUMBER -
- * ENGINE MODEL NUMBER _____TYPE -
- * PART NUMBER
- * PART DESCRIPTION

www.swisherinc.com TELEPHONE - 1-800-222-8183 FAX - 1-660-747-8650

SWISHER

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