



swisherinc.com

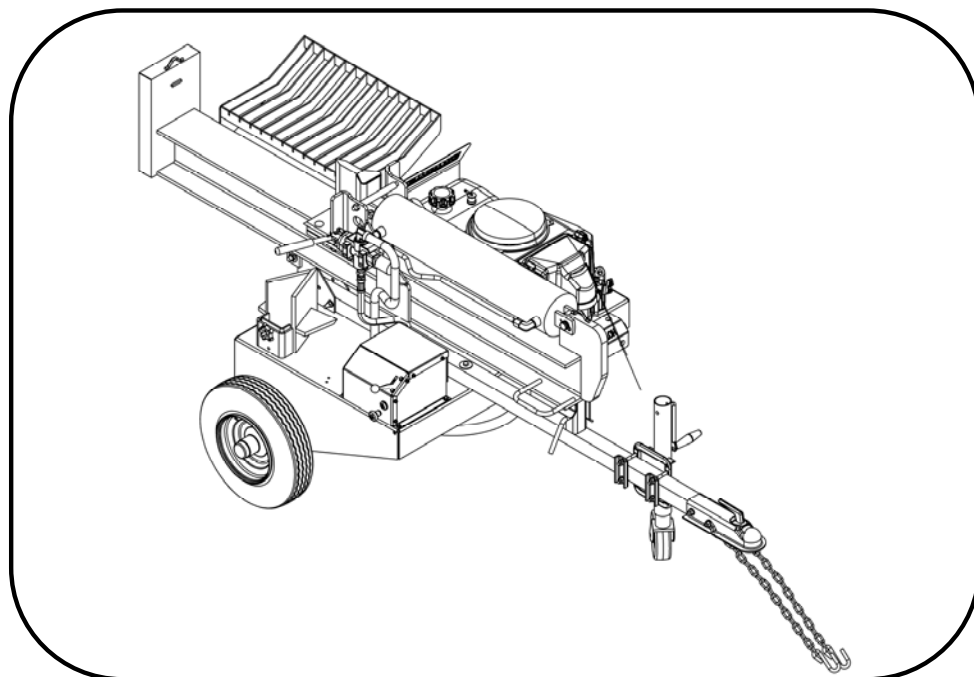
OWNER'S MANUAL

MODEL NO.

LSED14534

LSED14534-CA

STARTING SERIAL #:
L116-096001



LOG SPLITTER

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

REV 16-096

Safety
Assembly
Operation
Service and Adjustment
Repair Parts

1602 CORPORATE DRIVE, WARRENSBURG MISSOURI 64093
PHONE 660-747-8183 TOLL FREE 800-222-8183 FAX 660-747-8650

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.

As required by CFR § 1060.120, the fuel system related components, which have been certified to this equipment by SAI are to be free of defects in material and workmanship for a period of two (2) years 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:

Engine Warranty	All engines utilized on our products have a separate warranty extended to them by the individual engine manufacturer. Any engine service difficulty is the responsibility of the engine manufacturer and in no way is Swisher, or its agents responsible for the engine warranty. Engine warranty and contact information is as shown in the engine owners manual.
Hydraulic System	1 Year
Materials and Workmanship	3 Years
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.

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: The engine exhaust from this product contains chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.



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 or allow someone to operate this equipment while under the influence of alcohol, drugs or medication. Being coherent is essential for safety.
- **ALWAYS** use outdoors with adequate ventilation. **DON'T** run the engine in an enclosed area. Exhaust gases contain carbon monoxide. This odorless gas can be deadly when inhaled.
- **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.
- **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 and gasoline are flammable and can explode.
- NEVER fill gas tank while the engine is hot or running. Allow the engine to cool before refueling.
- This unit 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 applicable local or state laws (if any). If a spark arrester is used it should be maintained in effective working order by the operator.

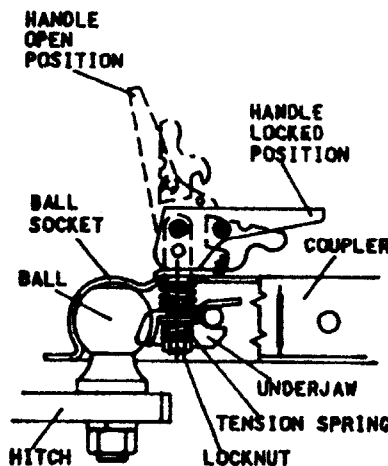
-NOTE-

In the state of California, the above is required by law (Section 442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands. A spark arrester muffler (optional by manufacturer) is available at your nearest engine dealer. Check legal requirements in your area.

- 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 buttplate 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 when the engine is running. 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 woods across the grain. Wood may burst or fly out of your splitter and result in serious injury.
- 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.
- 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 24" 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, 4-way wedge and cylinder are secured in their respective towing positions.
- 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 spark plug wire and place the wire where it cannot contact the spark plug, to prevent accidental starting the engine when setting up, transporting, adjusting or repairing.

TOWING SAFETY

- Do not allow persons to ride on splitter. Do not carry any cargo or wood on your splitter. It may fall off and endanger vehicles that are following you.
- Be sure support leg is in the travel position and coupling secure. This must also be retracted so as not to 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. A log could easily be pushed forward into the vehicle.
- See proper inflation instructions on side of tires.
- 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.

ASSEMBLY

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.

Refer to uncrating and assembly instructions for assembly procedures.

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.

IMPORTANT: This unit is shipped with oil but without gasoline in the engine. After assembly, see separate Engine Manual for proper fuel and oil recommendations.

WARNING: *DO NOT START OR RUN THE LOG SPLITTER WITHOUT OIL IN THE ENGINE AND 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 and the engine crankcase are filled correctly with their respective oils, set the throttle and turn on the fuel shut-off valve. The engine is now ready to start by following the starting instructions listed below. With the engine 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 ENGINE AND HYDRAULIC RESERVOIR.*

See separate Engine Manual for fuel and oil recommendations. Your log splitter has come equipped with a fuel shut-off valve for towing purposes.

Before starting engine make sure crankcase is filled correctly with oil and the proper fuel has been used. The engine will only start when the throttle lever and fuel shut-off valve are turned to their ON positions.

STARTING INSTRUCTIONS

Note: The engine may be equipped with an integrated automatic choking system.

1. Move throttle control to "FAST."
2. Turn ignition key to the "ON" position to start engine.
3. If Engine is equipped with manual choke lever, pull choke lever out. (Depending on current conditions unit may not need to be choked).
4. When engine starts, leave throttle control at "FAST." The throttle must be set in the fast position for maximum performance.
5. To stop engine, move throttle lever to "SLOW" for a few seconds then turn the ignition key to the "OFF" position.

IMPORTANT: This engine is not equipped with a spark arrester muffler. It is a violation of California Public Resource Code Section 4442 to use or operate the engine on any forest-covered, brush-covered, or grass-covered land. Other states or federal areas may have similar laws.

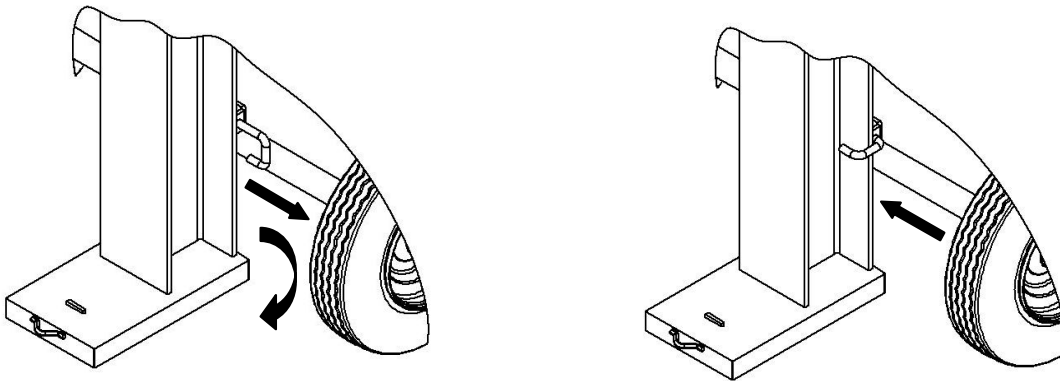
4-WAY WEDGE OPERATION: See 18851 Owners Manual in parts bag.

SPLITTER OPERATION

1. Set up the log splitter in a clear, level area and block the wheels. The suction port on the tank should always be on the lower side of the log splitter.
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, reposition log and repeat process. **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.

4. When using the Log Splitter in the vertical position, make sure the beam latch is engaged as shown below. Pull the bent pin outward then twist and release it to hold the I-beam in place.



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**.

***Turn the fuel shut-off valve OFF to prevent flooding of the engine while traveling.**

***Ensure that 4-way wedge is placed securely in the towing position, fastened to the motorbase or in the towing vehicle.**

***Be careful when backing up. You can easily jack-knife your splitter.**

TOWING AT NIGHT

The requirements for taillights are based on States regulations. Some states allow towing at night as long as the towed equipment does not visibly impair the tow vehicle taillights. This is based on a state, to state requirements. The customer is responsible for meeting the states requirements.

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 engine 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.

*NEVER run the log splitter for extended periods of time without cycling the cylinder. Running the unit without cycling hydraulic fluid throughout the entire system will cause excessive heat build up in all components.

MAINTENANCE AND STORAGE

WARNING: DISCONNECT THE SPARK PLUG BEFORE PERFORMING ANY MAINTENANCE.

Consult the operating and maintenance instructions of the engine manufacturer for engine care.

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. Change the hydraulic filter after every 50 hours of operation (use only a 10 micron hydraulic filter).

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.

If the wedge becomes dull or nicked a grinder or sharpening tool can be used to sharpen it.

Completely drain the fuel tank prior to storage. Always store gasoline in an approved, tightly sealed container. Store container in a dry, cool place with adequate ventilation. Keep fuel away from areas where fumes could contact open flame, pilot light or sparks.

Be aware of the environment when disposing of used petroleum products. Please dispose of used hydraulic fluid, engine oil and any by products 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 and ect 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 which can 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.



OD16 – FUEL SHUT OFF DECAL



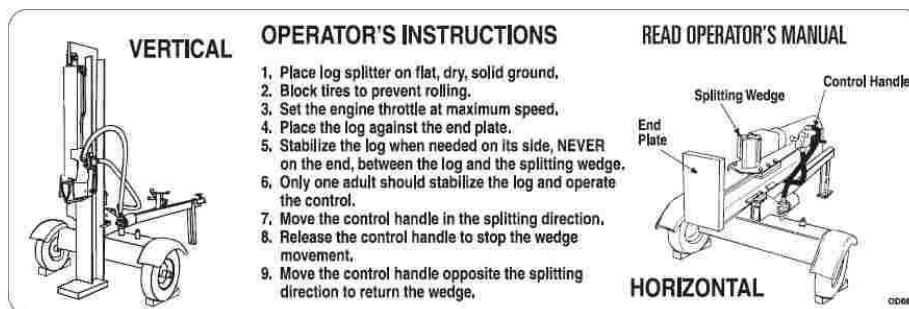
12494 – HYDRAULIC FILL PLUG DECAL



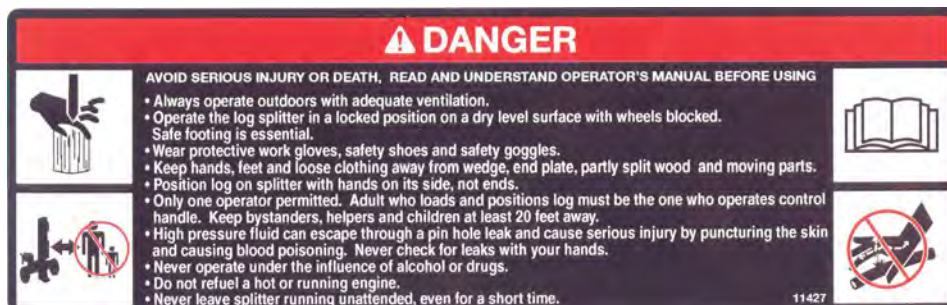
12549 – DO NOT EXCEED 45 MPH DECAL



12532 – HYDRAULIC OIL DECAL

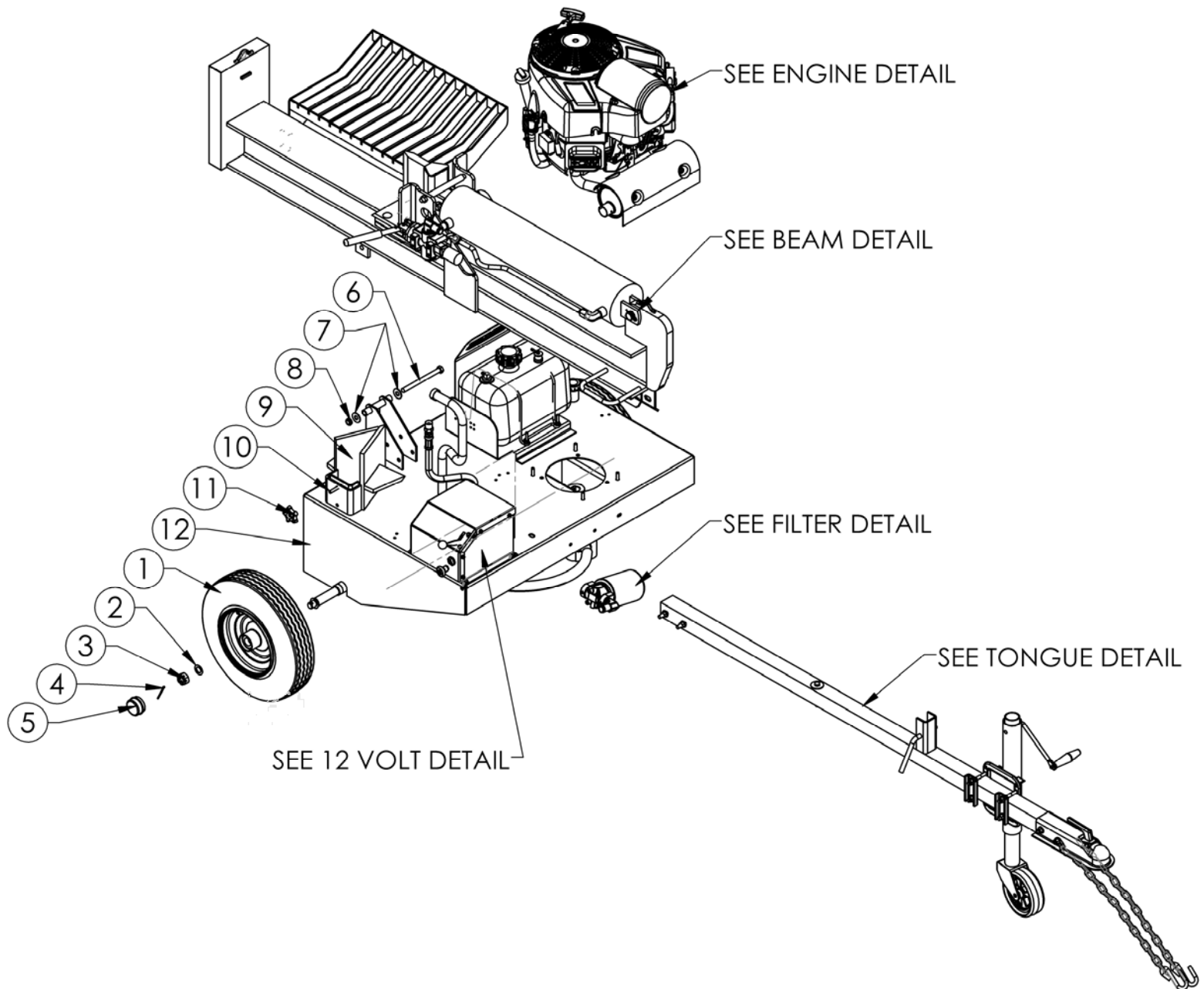


12492 – OPERATOR INSTRUCTION DECAL

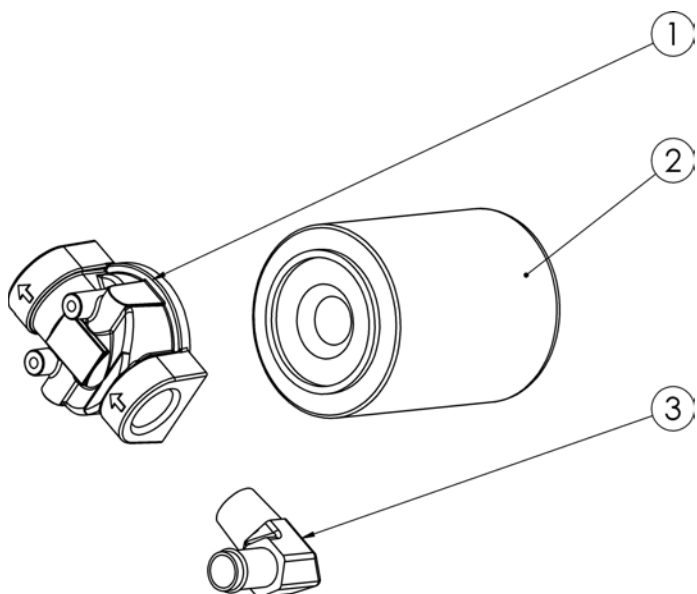


11427 – DANGER DECAL

ASSEMBLY DETAIL

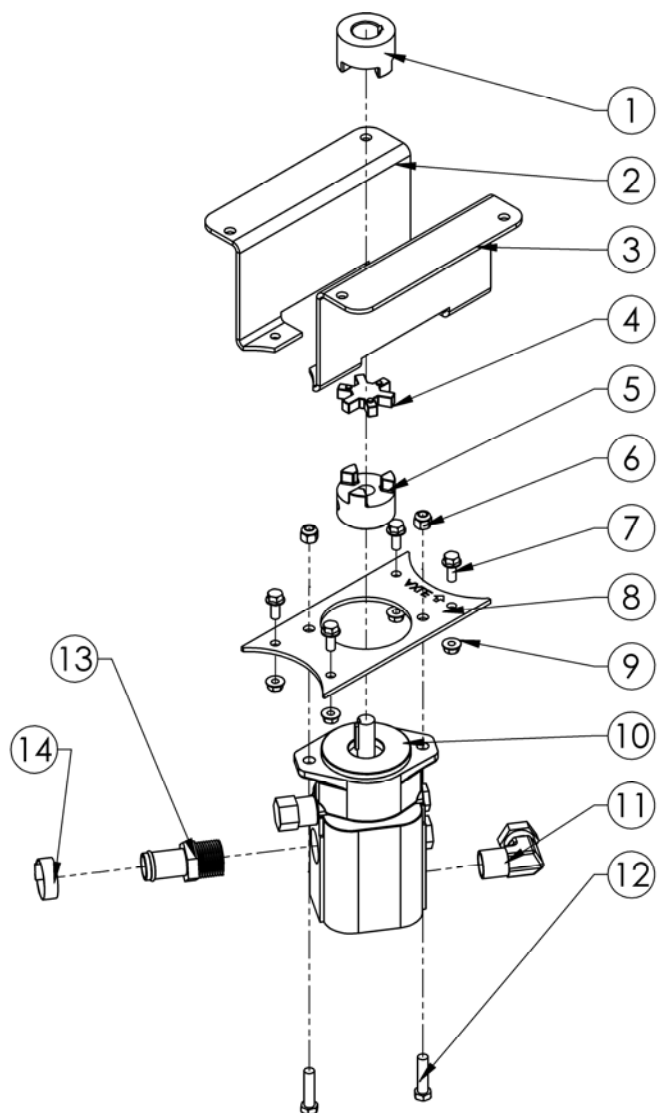


Item #	Part #	Description
1	7296K	Tire/Wheel, Log Splitter; Blk
2	NB179	Washer - 3/4 ID X 1 1/4 OD 18 GA ZY
3	2203CN	Nut - Castle 3/4-16, .625 Tall, Grade 2
4	NB633	Pin - Cotter, 1/8 X 2(Ext Prng Crbn Stl)
5	2203DC	Cover - Dust, Wheel Hub
6	NB151	Bolt - 1/2-13 X 6 HCC GR5 ZP
7	NB555	Washer - USS Flat, 1/2 ZY
8	NB688	Nut - Nyloc Jam, 1/2-13 ZY
9	18839TK	Weldment - Wedge, 4-Way; Txt Blk
10	NB587	Bolt - Carriage, 5/16-18 X 1 3/4 ZY Gr 2
11	2030	Knob - Black Plastic
12	20077TK	Weldment - Motorbase, LS; Txt Blk
NOT SHOWN	12363	Hose - Hydraulic, 3/4"ID X 72"
NOT SHOWN	19165	Hose - Hydraulic Pressure, 60"
NOT SHOWN	19811	Coil Cover - Hose, 5'



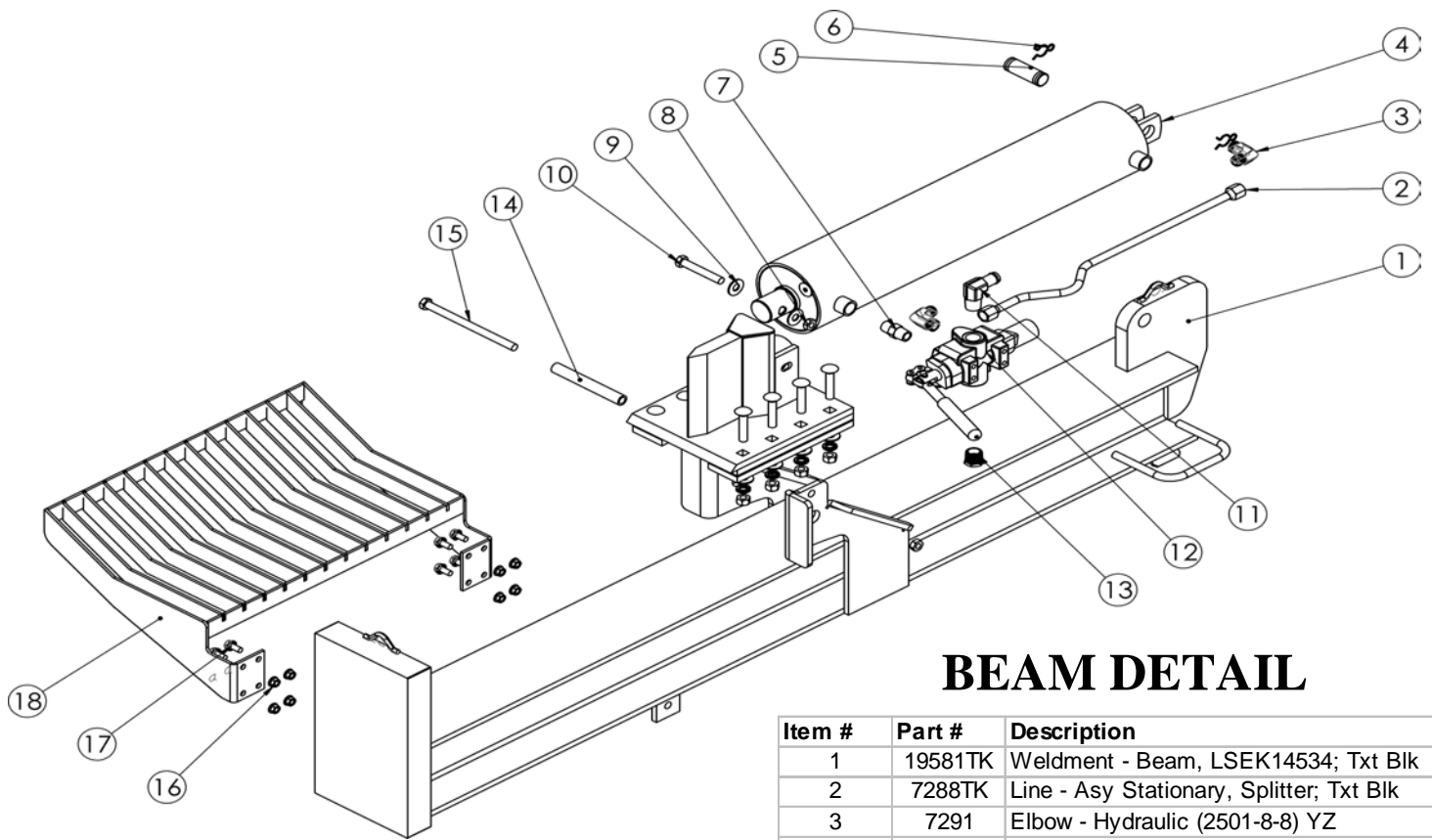
FILTER DETAIL

Item #	Part #	Description
1	LS1112	Head - Filter (FPC3012NXXR4X)
2	LS1113	Filter - Element
3	7329	Fitting - Line Return (4501-12-12) YZ



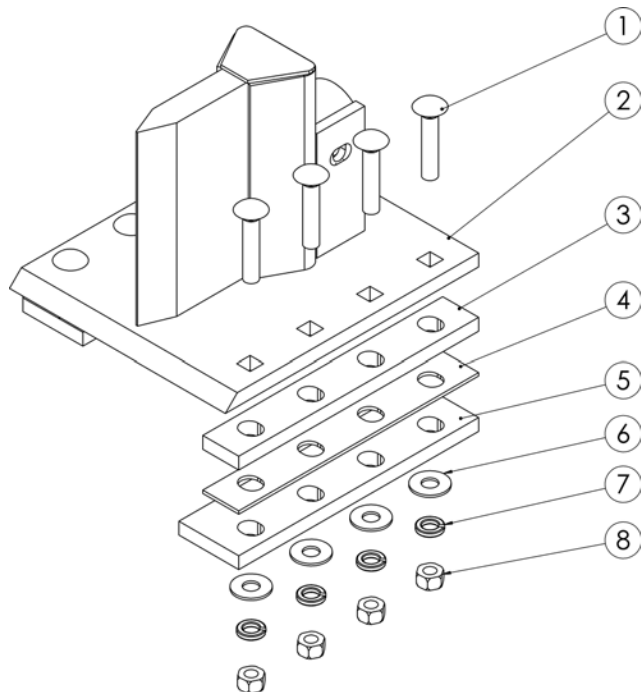
PUMP DETAIL

Item #	Part #	Description
1	14903	Coupler - 1" Shaft
2	20070*	Bracket - Pump Mount, Left
3	20071*	Bracket - Pump Mount, Right
4	14904	Jaw Coupling Insert
5	20015	Coupler - .625" ID
6	NB182	Nut - Nyloc 3/8-16 ZY
7	NB596	Bolt - Serr Flange, 5/16-18 X 3/4 Gr 5
8	20069*	Bracket - Pump Mount, 22 GPM
9	NB170	Nut - Serr Flange 5/16-18 ZY Case Hrd
10	19166	Pump - Hydraulic, 22 GPM
11	20083	Fitting - Male Pipe Elbow Swivel 3/4"
12	NB107	Bolt - 3/8-16 X 1 1/2 HCC GR5 ZY
13	19175	Fitting - Hydraulic Input 1" BARB 1" NPT
14	LS4999	Clamp - Hose No. 16 (1 1/16" X 2")



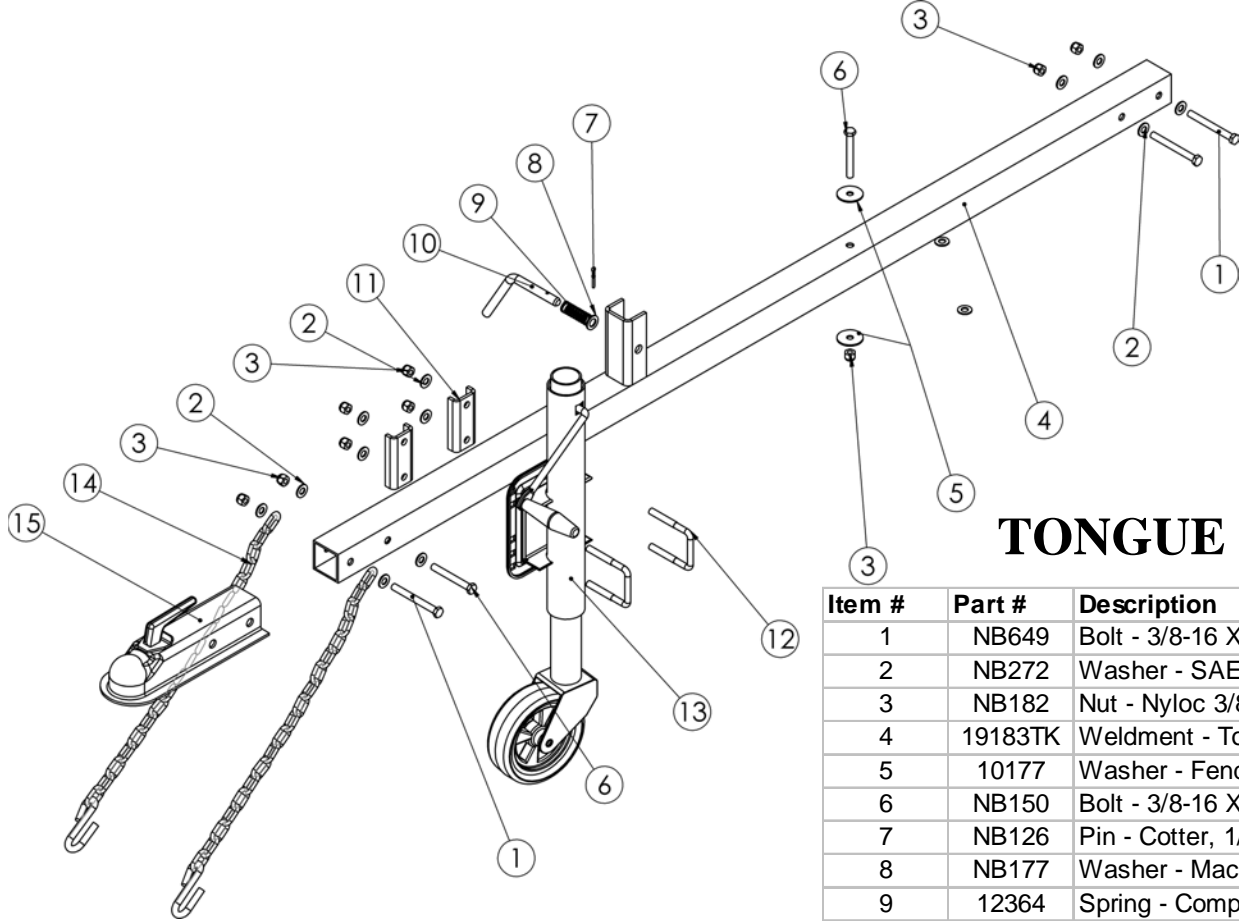
BEAM DETAIL

Item #	Part #	Description
1	19581TK	Weldment - Beam, LSEK14534; Txt Blk
2	7288TK	Line - Asy Stationary, Splitter; Txt Blk
3	7291	Elbow - Hydraulic (2501-8-8) YZ
4	7355TK	Cylinder - 5 X 24 X 2 Painted
5	7293	Pin - Cylinder to Beam Zp
6	NB642	Cotter - Hairpin #23-09 .093 X 1-13/16
7	7292	Pipe - Nipple (5404-8-8) ZY
8	NB121	Nut - Jam Lock, 1/2-13 2-Way Gr A
9	NB555	Washer - USS Flat, 1/2 ZY
10	12669	Bolt - 1/2-13 X 3 1/4 GR8 Alloy ZY
11	7329	Fitting - Line Return (4501-12-12) YZ
12	7287TK	Valve - Control; Splitter, Painted
13	19699	Fitting - Hydraulic 3/4" ML 1/2" FML NPT
14	19578TK	Spacer - Log Stripper; Txt Blk
15	NB108	Bolt - 1/2-13 X 7 HCC GR5 ZP
16	NB779	Nut - Serr Flange, Hex ZY 3/8-16
17	NB780	Bolt - Serr Flange, ZY 3/8-16X3/4 Gr5
18	19579TK	Weldment - Log Table; Txt Blk



WEDGE DETAIL

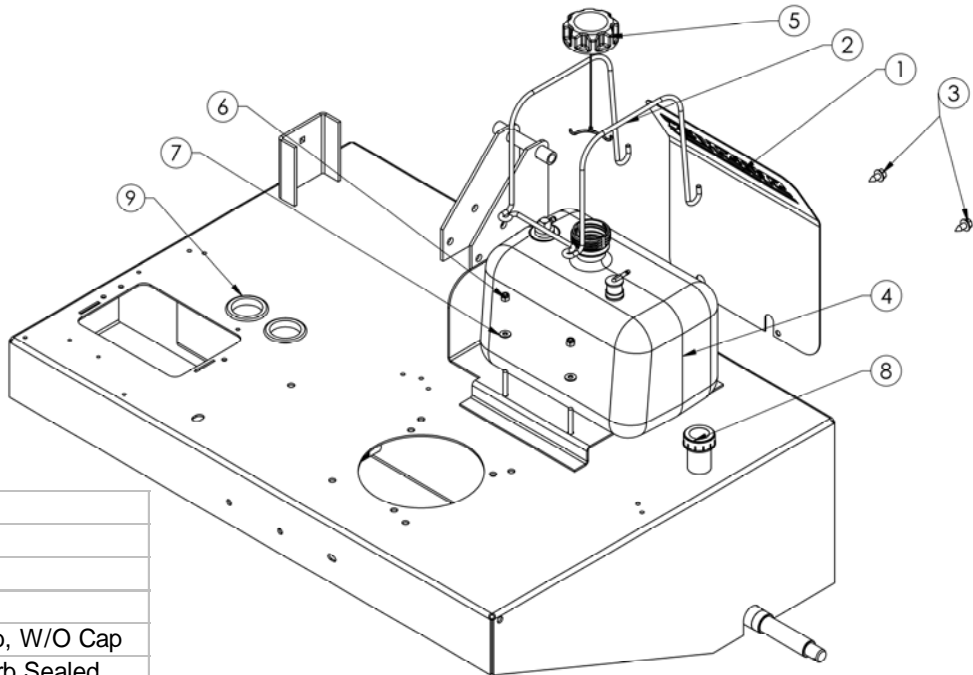
Item #	Part #	Description
1	NB643	Bolt - Carriage 1/2-13 X 2 1/2 GR5 ST ZY
2	7233TK	Wedge - Painted
3	7237TK	Spacer - 4 Slot .500 Thick -Txt Blk
4	7388TK	Spacer - 4 Slot, Textured Black 11GA
5	7333TK	Plate - Bottom Head Slide, Painted
6	NB555	Washer - USS Flat, 1/2 ZY
7	NB508	Washer - Lock, 1/2 ZY Medium Duty
8	NB213Z	Nut - 1/2-13 GR2 ZY



TONGUE DETAIL

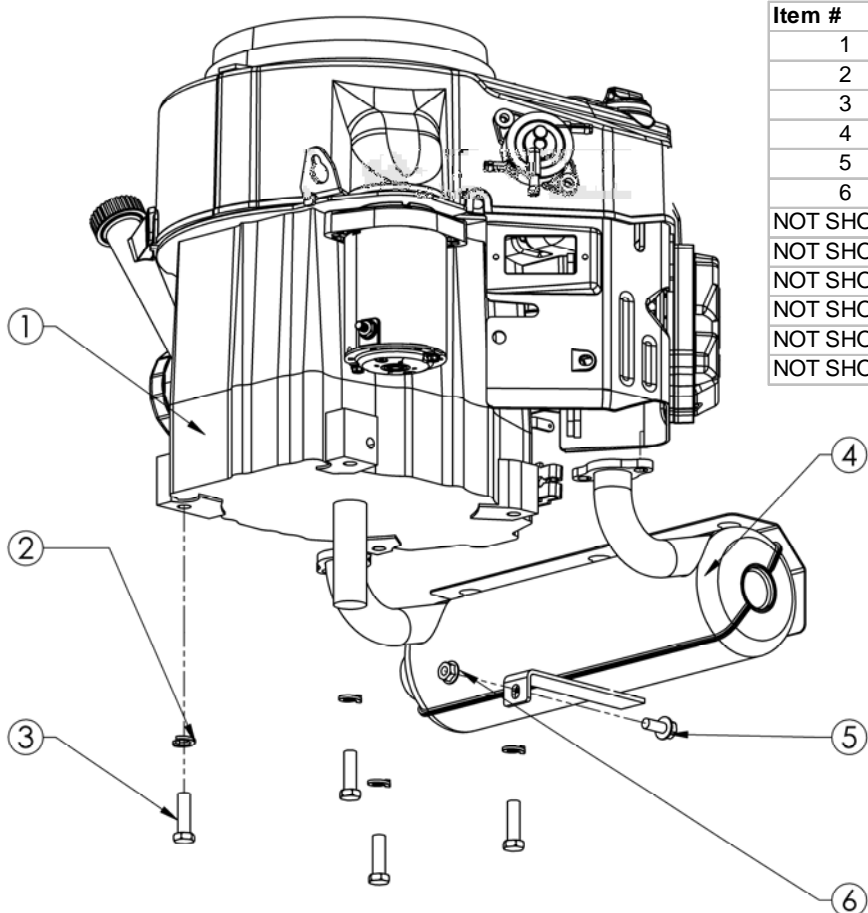
Item #	Part #	Description
1	NB649	Bolt - 3/8-16 X 3 1/2 GR5 ZY
2	NB272	Washer - SAE Flat 3/8 ZY Carbon Steel
3	NB182	Nut - Nyloc 3/8-16 ZY
4	19183TK	Weldment - Tongue, LS; Txt Blk
5	10177	Washer - Fender 3/8 X 1.5, Crbn Stl GR 2
6	NB150	Bolt - 3/8-16 X 3 HCC GR5 ZY
7	NB126	Pin - Cotter, 1/8 X 1, Crbn Stl Ext Prng
8	NB177	Washer - Mach 1/2 NR 14 GA
9	12364	Spring - Compression .620ID X 2" ZP
10	12345	Pin - Beam Lock 1/2 X 3
11	19477TK	Plate - Support, Kickstand Txt Blk
12	12447	Ubolt - SQ , 3/8-16X2.437 X 3 Lg GR 5 ZY
13	19179	Jackstand
14	7366	Chain - Safety, W/S Hook Zp
15	7365	Coupler - 2" Ball

FUEL DETAIL

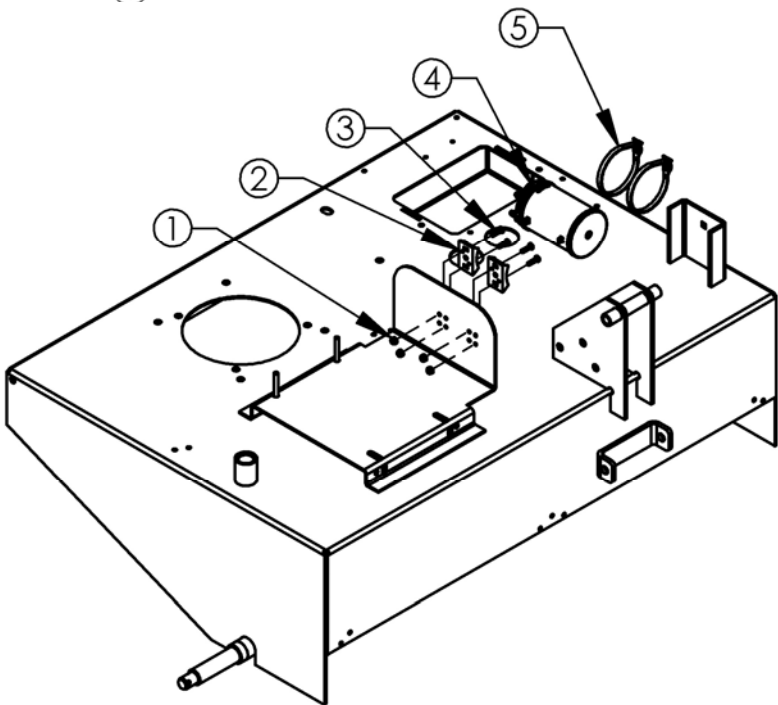


Item #	Part #	Description
1	19565TK	Cover - Fuel tank, Txt Blk
2	18225	Bracket - Fuel Tank
3	26X249	Screw - .312-18 X .75
4	18214	Fuel Tank - 2.5 Gallon, Carb, W/O Cap
5	18221	Cap, Fuel - 2.50 Gallon, Carb Sealed
6	NB180	Nut - Nyloc 1/4-20
7	NB274	Washer - SAE Flat 1/4 ZY
8	12379	Breather Cap W/Dipstick
9	12441	Grommet - PVC 1.75ID X 2.375OD, 2GD
NOT SHOWN	18223	Clamp - Fuel Line 13/32 OD, 3/16 ID Tube
NOT SHOWN	6FLC	Clamp - Fuel Line Hose; 1/2"OD .092 Dia
NOT SHOWN	11782	Line - Fuel, Bulk; 1/4" Low Perm
NOT SHOWN	18232	Line - Fuel, Bulk; 3/16" Low Perm

ENGINE DETAIL (Kawasaki)



Item #	Part #	Description
1	N/A	Engine - KAW 14.5HP, LS
2	NB711	Washer - Split Lock, 3/8 ZY, Medium
3	NB618	Bolt - 3/8-16 X 1 1/4 GR5 ZY
4	19181	Muffler - KAW 14.5HP, LS
5	NB596	Bolt - Serr Flange, 5/16-18 X 3/4 Gr 5
6	NB170	Nut - Serr Flange 5/16-18 ZY Case Hrd
NOT SHOWN	16000	Valve - Oil Drain
NOT SHOWN	18810	Adapter - Oil Drain, Kawasaki
NOT SHOWN	7414	Valve - Fuel Shut Off (Inline)
NOT SHOWN	N/A	Muffler Mounting Bolt(Comes with Engine)
NOT SHOWN	N/A	Muffler Mounting Washer(Comes with Engine)
NOT SHOWN	N/A	Exhaust Gasket(Comes with Engine)

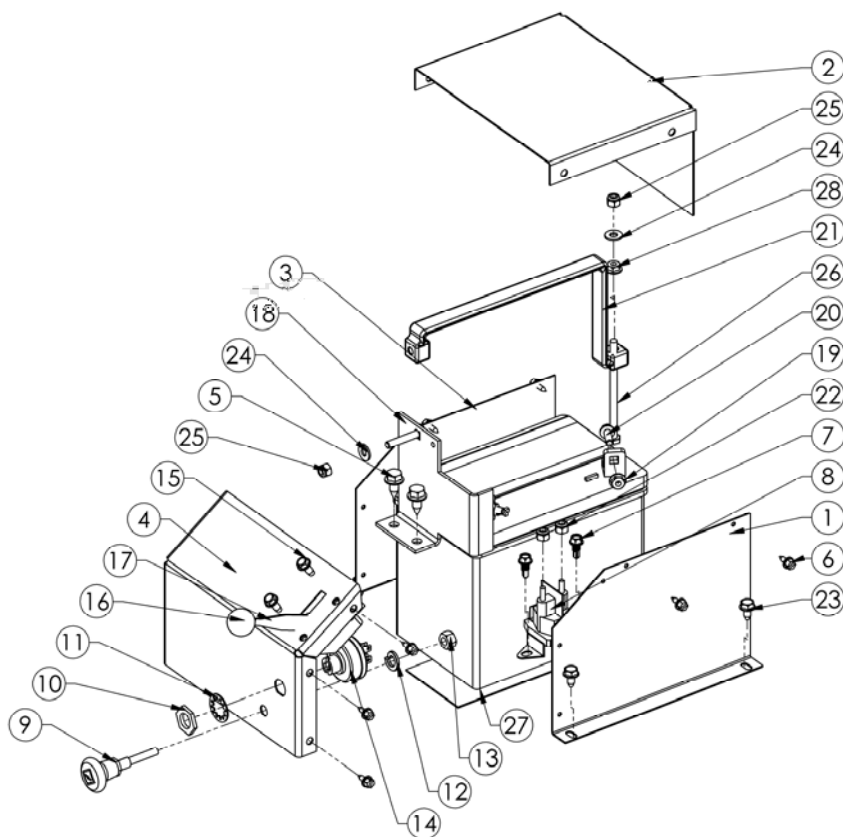


CARBON CANISTER DETAIL

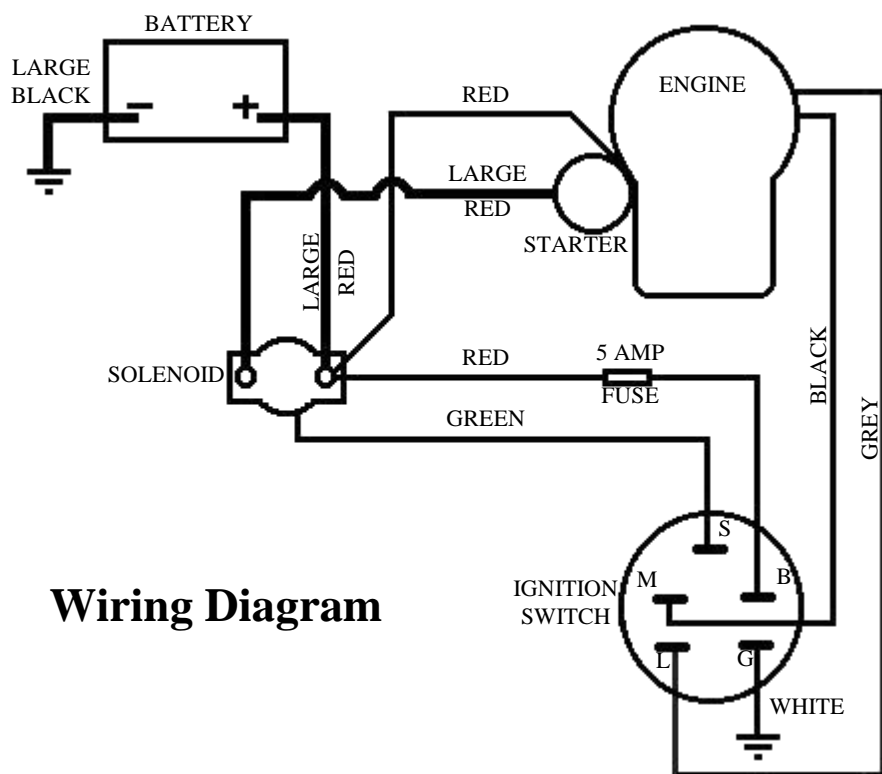
(CA MODELS ONLY)

ITEM #	PART #	DESCRIPTION
1	024900	Nut - 10-24 Nylon Lock
2	17127	Bracket - Carbon Canister
3	024203	Bolt - 10-24 X 3/4 Phil Truss Head
4	18224	Carbon Canister
5	18219	Cable Tie
NOT SHOWN	18232	Line - Fuel, Bulk; 3/16" Low Perm

12 VOLT ACCESORIES



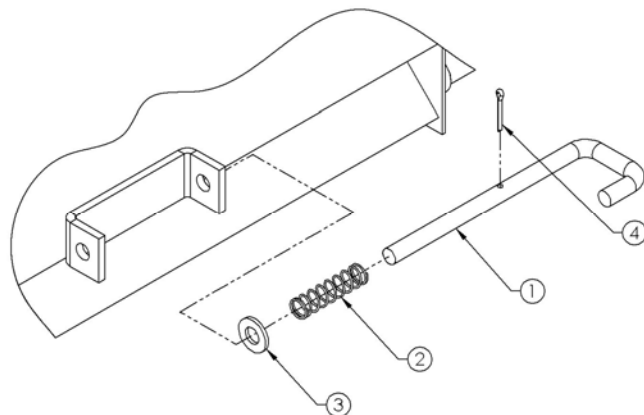
Item #	Part #	Description
1	20142TK	Plate - Right Side, Console; Txt Blk
2	20145TK	Plate - Rear, Console; Txt Blk
3	20143TK	Plate - Left Side, Console; Txt Blk
4	20144TK	Plate - Top, Console; Txt Blk
5	26X249	Screw - .312-18 X .75
6	024206	Screw - 12 X 1/2 Hex Self Tap
7	NB161	Screw - HX Tek 1/4 X 3/4 ZP
8	1002004	Solenoid - 3 Pole
9	9914	Cable - Choke, Briggs & Stratton
	19170	Cable - Choke , Kawasaki
10	9087	Nut - Key Switch
11	9088	Washer - Lock, Key Switch
12	NB711	Washer - Split Lock, 3/8 ZY, Medium
13	NB456	Nut - 3/8-24 HNF ZY Gr 2
14	3623	Switch - Key
15	26X263	Screw - Hex .25-20X0.59
16	686K	Knob - Throttle, For 686
17	19169	Cable - Throttle 52"
18	20148TK	Weldment - Battery Hold Down, Txt Blk
19	NB524	Nut - Serr Flange, 1/4-20 Grade 5 ZY
20	NB690	Bolt - Serr Flange, 1/4-20 X 3/4 GR5 ZY
21	AS013	Strap - Tarp, 9"
22	NB180	Nut - Nyloc 1/4-20
23	NB161	Screw - HX Tek 1/4 X 3/4
24	NB274	Washer - SAE Flat 1/4 ZY
25	NB180	Nut - Nyloc 1/4-20
26	NB551	Bolt - 1/4-20 X 4 HTC GR2 ZP
27	BATPAD	Pad - Battery
28	NB524	Nut - Serr Flange, 1/4-20 Grade 5 ZY
NOT SHOWN	AS084	Electrical - 5 Amp Fuse
NOT SHOWN	19969	Harness - Wiring, Briggs & Stratton
	19187	Harness - Wiring, Kawasaki
NOT SHOWN	BC24	Cable - Battery, 24" Red
NOT SHOWN	BCBT	Boot - Rubber, Small, Battery Cable
NOT SHOWN	BCS	Cable - Battery, 10" Black
NOT SHOWN	BCSR	Cable - Battery, 10" Red



Wiring Diagram

BEAM LATCH DETAIL

ITEM #	PART #	DESCRIPTION
1	18821	Pin - Beam Latch
2	18822	Spring - Compression
3	18823	Washer - Flat, 1/2"
4	NB126	Pin - Cotter



TROUBLESHOOTING

Engine is hard to start or runs erratically.	1. Spark plug wire loose.	1. Connect and tighten spark plug wire.
	2. Blocked fuel line or stale fuel.	2. Clean fuel line; fill tank with clean, fresh gasoline
	3. Water or dirt in fuel system.	3. Drain fuel tank. Refill with fresh gasoline.
	4. Dirty air cleaner.	4. Clean or replace air cleaner.
	5. Carburetor out of adjustment.	5. See authorized service center.
Cylinder rod will not extend or contract.	1. Pump coupling system damaged.	1. Replace faulty coupler components.
	3. Low hydraulic fluid.	3. Fill hydraulic tank to correct fluid level.
	4. Hydraulic lines blocked.	4. Flush and clean hydraulic system.*
	5. Damaged or broken pump.	5. See authorized service center.
	6. Damaged control valve.	6. See authorized service center.
Cylinder rod is slow or erratic while extending and contracting.	1. Low hydraulic fluid.	1. Fill hydraulic tank to correct fluid level.
	2. Contaminated hydraulic fluid.	2. Drain fluid, flush system, and refill.
	3. Excessive pump inlet vacuum.	3. Make certain pump hoses are clear and unblocked. Make certain hose is not collapsing under suction.
	4. Damaged pump.	4. See authorized service center.
	5. Damaged control valve.	5. See authorized service center.
	6. Internal cylinder damage.	6. See authorized service center.
Cylinder is leaking.	1. Broken seals.	1. See authorized service center.
	2. Scored cylinder.	2. See authorized service center.
Engine will not turn over.	1. Weak or dead battery.	1. Recharge or replace battery.
	2. Blown fuse.	2. Replace fuse.
	3. Corroded battery terminals.	3. Clean battery terminals.
	4. Loose or damaged wiring.	4. Check all wiring.
	5. Faulty ignition switch.	5. Check/replace ignition switch.
	6. Faulty solenoid.	6. Check/replace solenoid.
Engine clicks but will not start.	1. Weak or dead battery.	1. Recharge or replace battery.
	2. Corroded battery terminals.	2. Clean battery terminals.
	3. Loose or damaged wiring.	3. Check all wiring.
	4. Faulty solenoid.	4. Check/replace solenoid.
Battery will not charge.	1. Bad battery.	1. Replace battery.
	2. Corroded battery terminals.	2. Clean battery terminals.
	3. Faulty solenoid.	3. Check/replace solenoid.
	4. Bad alternator.	4. See authorized service center.

NOTE: For repairs beyond those listed here, contact your nearest authorized service center.

* Flushing the reservoir tank and hoses with kerosene whenever service is performed on the tank, hydraulic pump or valve is recommended. Contact an authorized service center.

MAINTENANCE LOG

Date of Service	Service Performed		Notes

SPECIFICATIONS

Splitting Force	34 Tons*
Engine	14.5 HP Kawasaki, 603CC
Battery	12V Type U1L (not included)
Splitting Positions	Horizontal and Vertical
Cylinder Size	5" X 24"
Pump	2 Stage with Heavy Duty Bearings
Pump Specs	22 Gallons Per Minute
Valve	Auto Return
Drive System	Heavy Duty Direct Drive Coupling
Hydraulic System Fluid Capacity	15 Gallons (13.5-14 Gallons required for normal operation)
Maximum Log Length	25 1/2"
Tire Specs	4.00 X 4.80 X 8 with High Speed Bearings
Ball Hitch	2" Ball
Unit Weight	751 Lbs

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

NOTES:



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, over 65 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 ATV Magazine, Country Journal, Popular Mechanics Magazine and others. In January 2000 Popular Mechanics Magazine 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



swisherinc.com

OWNER'S MANUAL

MODEL NO.
LSED14534
LSED14534-CA

LOG SPLITTER

HOW TO ORDER REPAIR PARTS:

Each Log Splitter has its own serial number. Each engine has its own serial number. The serial number for the Log Splitter will be found on the right hand side of the hydraulic oil reservoir. The serial number for the engine will be found on the top of the blower fan housing.

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

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