

*Surge-*MASTER

BY EMB MFG INC.

EMB Manufacturing Inc.

4144 Boomer Line · St. Clements, On · N0B 2M0 · Canada

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www.surgemaster.ca www.embmfg.com

SL606S Woodsplitter Operator's Manual



Horizontal and Vertical Splitting

PRINTED IN CANADA

Rev: 290312



WARRANTY

Effective on products retailed on or after September 1, 2011.

Register your product online at www.surgemaster.ca within 30 days of purchase to activate warranty.

This product is warranted to be free of defects in materials and workmanship under normal use and service, for a period of

Three (3) Years for Consumer One (1) Year for Commercial/Rental

from the date of purchase, when operated and maintained in accordance with the Operating and Maintenance Instructions supplied with this unit. Warranty is limited to the repair of the product and/or replacement of parts.

This warranty does not cover the following items:

- 1) Parts lost or damaged during shipment,
- 2) Normal maintenance or adjustments
- 3) Normal replacement of service items.
- 4) Accessory items / parts not supplied by EMB MFG INC.
- 5) Damages resulting from:
 - misuse, negligence, accident, theft or fire
 - use of improper or insufficient fuel, fluids or lubricants
 - use of parts or after market accessories other than genuine EMB MFG INC. parts
 - modifications, alteration, tampering or improper repair performed by parties other than an authorized servicer
 - any device or accessories installed by parties other than an authorized EMB servicer

Engines are covered by the manufacturer of the engine and covered by the warranty period specified by that manufacturer.

Engine warranty must be registered at the engine manufactures website. For service contact your local engine dealer.

Under no circumstances will the manufacturer be liable for any consequential damage or expense of any kind, including loss of profits. The manufacturer is under no circumstances liable for tow vehicle of any kind. The manufacturer is not liable for the maintenance of the product.

This warranty is extended only to the original purchaser and is not transferable. Warranty is void if repairs are attempted by anyone other than an authorized service centre.

If a difficulty develops with the product, contact EMB MFG INC. Only our authorized service centres may make repairs to the product or affect the replacement of defective parts, which will be done at no charge within a reasonable time after the receipt of the product. Unit or parts shall be returned at the customer's expense to the authorized service centre. Damage in transit is not covered by warranty. **Include the original purchase receipt with any claim** (keep a copy of the receipt for your files).

The distributor's liability under warranty is limited to the repair of the product and/or replacement of parts and is given to the purchaser in lieu of all other remedies including incidental and consequential charges. There are no warranties, expressed or implied, other than those specified herein.

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Email: warranty@embmfg.com

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WARRANTY IS VOID IF NOT REGISTERED

Valuable Information for Your Records

Date of Purchase: _____

Dealer Where Purchased: _____

Woodsplitter Model Number: _____

Woodsplitter Serial Number: _____

Notes

Safety Instructions

- Keep hands, feet, and clothing away from engine and all moving parts.
- Never allow your hands, arms, or legs to come between the cutting edge of the woodsplitter and the moving block pusher.
- Children and pets must be kept away from the area of operation due to possible injury from falling wood or moving woodsplitter components.
- Confirm that all hydraulic lines, fittings, and couplers are tight and not leaking before starting machine.
- Never try to split wood crosswise. The wood may jump out and cause serious injury.
- Always be careful and concentrate fully while the woodsplitter is in operation.
- When towing, always be sure to use the safety chains and to secure all safety locks.
- Before each use, confirm that the woodsplitter is free of damage and effects of misuse. Failure to keep the woodsplitter in proper condition may lead to serious injury.

SAFETY

YOU are responsible for the **SAFE** operation and maintenance of your Surge-Master Trailer Woodsplitter. **YOU** must ensure that you and anyone else who is going to operate, maintain or work around the Woodsplitter be familiar with the operating and maintenance procedures and related **SAFETY** information contained in this manual. This manual will take you step-by-step through your working day and alerts you to all good safety practices that should be adhered to while operating the Woodsplitter.

Remember, **YOU** are the key to safety. Good safety practices not only protect you but also the people around you. Make these practices a working part of your safety program. Be certain that **EVERYONE** operating this equipment is familiar with the recommended operating and maintenance procedures and follows all the safety precautions. Most accidents can be prevented. Do not risk injury or death by ignoring good safety practices.

- Woodsplitter owners must give operating instructions to operators or employees before allowing them to operate the machine, and at least annually.
- The most important safety feature on this equipment is a **SAFE** operator. It is the operator's responsibility to read and understand **ALL** Safety and Operating instructions in the manual and to follow these. Most accidents can be avoided.
- A person who has not read and understood all operating and safety instructions is not qualified to operate the machine. An untrained operator exposes himself and bystanders to possible serious injury or death.
- Do not modify the equipment in any way. Unauthorized modification may impair the function and/or safety and could affect the life of the equipment.
- Think SAFETY! Work SAFELY!

Although there are no operational restrictions on the Trailer Woodsplitter when used for the first time, it is recommended that the following mechanical items be checked:

A. After Operating For 1 and 5 Hours:

1. Check all nuts, bolts and other fasteners. Tighten to their specified torque level.
2. Check hydraulic system for leaks. Tighten all leaking fittings and replace any leaking components.
3. Check machine fluid levels: Fuel, engine oil, and hydraulic oil reservoir. Top up as required.
4. Check for entangled material. Remove all entangled material before resuming work.
5. Check tire pressure. Inflate as required.
6. **Review your engines instruction manual for specific instructions / requirements**

B. After Operating For 10 Hours:

1. Repeat steps 1 through 5 listed above.
2. Go to the normal servicing and maintenance schedule as defined in the Maintenance Section.
3. **Review your engines instruction manual for specific instructions / requirements**

C. After Operating For 20 Hours:

1. Change engine oil: **Review your engines instruction manual for specific instructions / requirements**

Before Starting

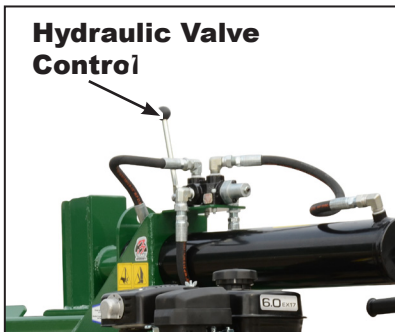
Before beginning operation of your woodsplitter be sure to read and understand operating and safety instructions as outlined in the woodsplitter and engine operator's manuals.

Starting Operation

For engine starting instructions, see applicable engine operator's manual. Before operating the woodsplitter check hydraulic oil level and check to make sure wedge slide is free from all obstructions and debris. Never run woodsplitter inside without adequate ventilation as it will cause carbon monoxide poisoning. Never permit a minor or incompetent operator to operate machine.

Woodsplitter Operation

When machine is in desired location, set adjustable back leg (2) to stabilize machine. To operate in horizontal position, simply start engine and machine is ready to work. **The wedge will move the same direction as the valve lever (1) is pushed.** To split a log, push forward on the lever to extend cylinder and wedge. When log is split, pull lever back until you feel it lock into the valve detent and it will return and stop automatically. Woodsplitter can also be used in the vertical position by releasing spring latch and lifting it to upright position. Always keep sliding wedge mechanism free of all foreign material.



Maintenance

Always keep the oil reservoir filled within the flat area on the dipstick (A). Your woodsplitter comes shipped from the factory with Dexron III transmission fluid installed because it easily handles a wide range of temperatures. Change oil if it becomes discoloured or every 500 hours of use. The oil filter should be changed at least every 500 hours of operation. Oil capacity of the reservoir is approximately 13 litres. Keep wheel bearings well greased.

TROUBLE SHOOTING

The Surge-Master Trailer Woodsplitter uses hydraulic power to move a hydraulic cylinder to split wood or logs. It is a simple and reliable system that requires minimal maintenance.

In the following chart, we have listed many of the problems, causes and solutions to the problems that you may encounter.

If you encounter a problem that is difficult to solve, even after having read through this trouble shooting section, please call your local dealer, distributor or Surge-Master. Before you call, please have this Operator's Manual and the serial number from your Woodsplitter ready.

PROBLEM	CAUSE	SOLUTION	CAUTION
Cylinder rod moves slowly or doesn't move.	No pressurized hydraulic oil.	Oil filter plugged. Change filter.	Ensure machine is off and cooled down.
	No pressurized hydraulic oil	Low hydraulic oil level, top up	Ensure machine is off and cooled down
	Wood jammed around wedge.	Shut machine off and safely remove wood.	Ensure machine is off
	Not enough pressure.	Call technician, system relief setting may be low (below 2750 psi).	Ensure machine is off and call hydraulic technician.
	Low engine speed.	Check that choke is off, check throttle is set to maximum.	
Control handle doesn't go to neutral after rod is fully retracted.	Detent set too tight.	Call technician, adjustment required with detent on valve.	Ensure machine is off and call hydraulic technician.
	Hydraulic fluid too cold.	Allow machine to warm up.	
	Hydraulic fluid is too old or contaminated.	Change hydraulic fluid and filter	Ensure machine is off and cooled down.
Control handle goes to neutral before rod is fully retracted.	Detent set too loose.	Call technician, adjustment required with detent on valve.	Ensure machine is off and call hydraulic technician.
Control handle doesn't go to neutral when released.	Control may be damaged.	Call technician, control may need service or be replaced.	Ensure machine is off and call hydraulic technician.
Cylinder stops on contact with wood.	Second stage on pump not functioning.	Call technician, pump may need service or be replaced.	Ensure machine is off and call hydraulic technician.
Wedge jumps.	Wedge frame jamming.	Lubricate wedge frame wear plates.	Ensure machine is off.
Leaking hydraulic hose.	Hose worn or damaged.	Replace hose.	Ensure machine is off and cooled down.
Leaking cylinder.	Seals worn.	Call technician, seal replacement may be required.	Ensure machine is off and call hydraulic technician.
Engine related issues.	<i>Refer to your engine instruction manual for specific trouble shooting instructions / requirements.</i>		

Surge-MASTER

Product Specifications



Surgemaster Model SL606S 25 Ton Woodsplitter

- Powered by 5.7 hp Subaru EX17 engine
- Two stage hydraulic pump producing 11 gpm flow
- 4.5" bore, 24" stroke cylinder
- 3 position, auto return valve
- 50,000 lb. splitting capacity
- Heavy-duty tubular frame construction
- Splits wood in either horizontal or vertical position
- Comes with 2" ball hitch, safety chains, signal lights, and 4.80 x 8 highway towable wheels
- Measures 80" long, 48" wide, and 40" high.
- Each unit comes filled with oil and is fully tested at factory before delivery.
- Optional 4 way Splitter available