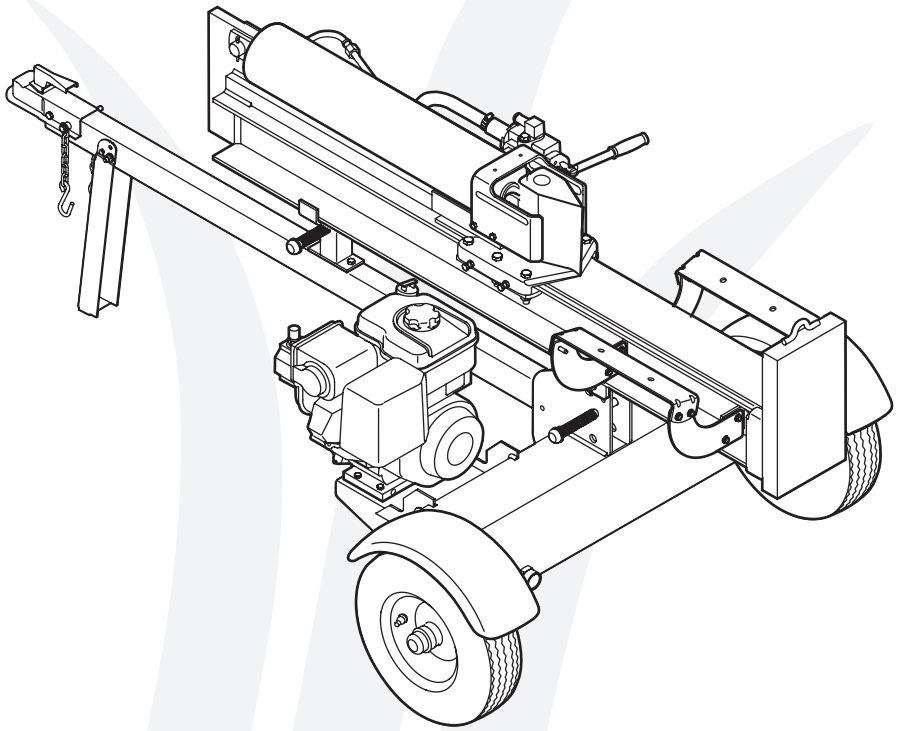
For Parts Call 606-678-9623 or 606-561-4983

Safety • Assembly • Operation • Adjustment • Maintenance • Troubleshooting • Parts Lists • Warranty

OPERATOR'S MANUAL



Log Splitter — Model Series 580

IMPORTANT

READ SAFETY RULES AND INSTRUCTIONS CAREFULLY BEFORE OPERATION

Warning: 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. In the State of California the above is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands. A spark arrester for the muffler is available through your nearest engine authorized service dealer or contact the service department, P.O. Box 361131 Cleveland, Ohio 44136-0019.

PRINTED IN U.S.A.

MTD LLC, P.O. BOX 361131 CLEVELAND, OHIO 44136-0019

FORM NO. 770-10031J
07/10/2006

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This Operator's Manual is an important part of your new log splitter. It will help you assemble, prepare and maintain the unit for best performance. Please read and understand what it says.

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Finding and Recording Model Number

BEFORE YOU START ASSEMBLING
YOUR NEW EQUIPMENT

Please locate the model plate on the equipment and copy the information to the sample model plate provided to the right. You can locate the model plate by standing behind the unit and looking down at the hydraulic tank. This information will be necessary to use the web site or obtain assistance from your *MTD* dealer.

Model Number _____

Serial Number _____

MTD For A Growing World.®

www.mtdproducts.com

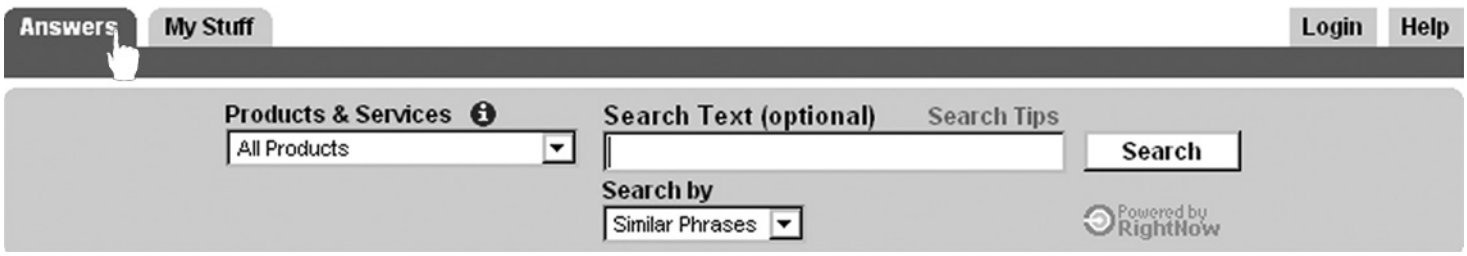
MTD LLC
P.O. BOX 361131
CLEVELAND, OH 44136
330-220-4683
800-800-7310

Customer Support

Please do *NOT* return the unit to the retailer from which it was purchased, without first contacting Customer Support.

If you have difficulty assembling this product or have any questions regarding the controls, operation, or maintenance of this unit, you can seek help from the experts. Choose from the options below:

1. Visit **mtdproducts.com**. Click on Yardmachines and then the Customer Support menu option.
2. Phone a **Customer Support Representative** at 1 (800) 800-7310.
3. The **engine manufacturer** is responsible for all engine-related issues with regards to performance, power-rating, specifications, warranty and service. Please refer to the engine manufacturer's Owner's/Operator's Manual, packed separately with your unit, for more information.



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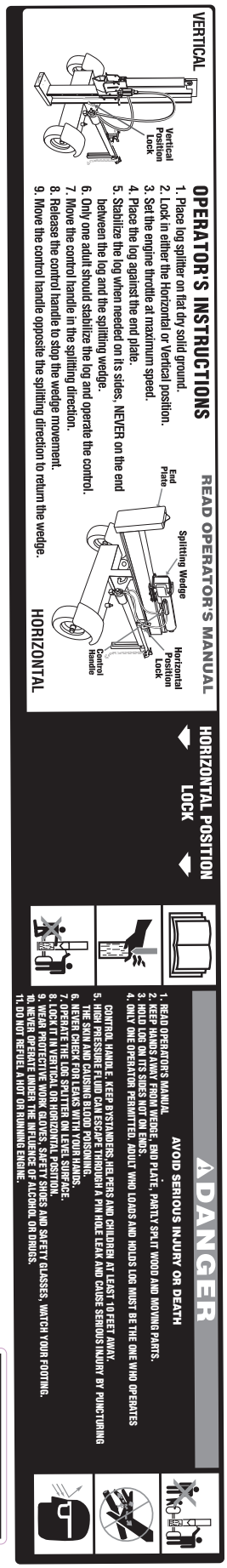
Safety Labels Found On Your Log Splitter



⚠ WARNING - TO AVOID INJURY AND/OR PROPERTY DAMAGE

MOVING LOG SPLITTER BY HAND

- Lock beam in horizontal position.
- Lock jack stand in down position.
- Do not attempt to move log splitter up or down a slope by hand

TOWING LOG SPLITTER

- Lock beam in horizontal position.
- Attach coupler to Class I or higher hitch with 2" ball. Latch securely.
- If coupler adjustment is needed, refer to owner's manual.
- Raise jack stand and latch securely in full up position.
- Attach safety chains to tow vehicle.
- Do not tow faster than 45 mph. High speed may cause loss of control.
- Check local, state and federal requirements before towing on any public road.

1

Safety Labels

WARNING

DO NOT remove safety (or any) labels from log splitter for any reason.

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2 Safe Operation Practices

WARNING

This symbol points out important safety instructions which, if not followed, could endanger the personal safety and/or property of yourself and others. Read and follow all instructions in this manual before attempting to operate this machine. Failure to comply with these instructions may result in personal injury. When you see this symbol -

HEED ITS WARNING

Your Responsibility

Restrict the use of this power machine to persons who read, understand and follow the warnings and instructions in this manual.

WARNING: Engine Exhaust, some of its constituents, and certain vehicle components contain or emit chemicals known to State of California to cause cancer and birth defects or other reproductive harm.

DANGER: This machine 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. This machine is capable of amputating hands and feet and throwing objects. Failure to observe the following safety instructions could result in serious injury or death.

General Practices

1. Read, understand, and follow all instructions on the machine and in the manual(s) before attempting to assemble and operate. Keep this manual in a safe place for future and regular reference and for ordering replacement parts.
2. Be familiar with all controls and proper operation. Know how to stop the machine and disengage them quickly.
3. Never allow children under 16 years to operate this machine. Children,16 years and over, should read and understand instructions and safety rules in this manual and should be trained and supervised by a parent.
4. Never allow adults to operate this machine without proper instruction.
5. Many accidents occur when more than one person operates the machine. If a helper is assisting in loading logs, never activate the control until the helper is a minimum of 10 feet from the machine.
6. Keep bystanders, helpers, pets, and children at least 20 feet from the machine while it is in operation.
7. Never allow anyone to ride on this machine.
8. Never transport cargo on this machine.
9. Hydraulic log splitters develop high fluid pressures during operation. Fluid escaping through a pin hole opening can penetrate your skin and cause blood poisoning, gangrene, or death. Give attention to the following instructions at all times:
   a. Do not check for leaks with your hand.
   b. Do not operate machine with frayed, kinked, cracked, or damaged hoses, fitting, or tubing.
   c. Stop the engine and relieve hydraulic system pressure before changing or adjusting fittings, hoses, tubing, or other system components.
   d. Do not adjust the pressure settings of the pump or valve.
10. Leaks can be detected by passing cardboard or wood, while wearing protective gloves and safety glasses, over the suspected area. Look for discoloration of cardboard or wood.
11. If injured by escaping fluid, see a doctor immediately. Serious infection or reaction can develop if proper medical treatment is not administered immediately.
12. Keep the operator zone and adjacent area clear for safe, secure footing.
13. If your machine is equipped with an internal combustion engine and it is intended for use near any unimproved forest, brush, or grass covered land, the engine exhaust should be equipped with a spark arrester. Make sure you comply with applicable local, state, and federal codes. Take appropriate firefighting equipment with you.
14. This machine should be used for splitting wood only, do not use it for any other purpose.
15. Follow the instructions in the manual(s) provided with any attachment(s) for this machine.

Preparation

1. Always wear safety shoes or heavy boots.
2. Always wear safety glasses or safety goggles during operating this machine.
3. Never wear jewelry or loose clothing that might become entangled in moving or rotating parts of the machine.
4. Make sure machine is on level surface before operating.
5. Always block machine to prevent unintended movement, and lock in either horizontal or vertical position.
6. Always operate this machine from the operator zone(s) specified in the manual.
7. Logs should be cut with square ends prior to splitting.
8. Use log splitter in daylight or under good artificial light.
9. To avoid personal injury or property damage use extreme care in handling gasoline. Gasoline is extremely flammable and the vapors are explosive. Serious personal injury can occur when gasoline is spilled on yourself or your clothes which can ignite. Wash your skin and change immediately.
   a. Use only an approved gasoline container.
   b. Extinguish all cigarettes, cigars, pipes, and other sources of ignition.
   c. Never fuel machine indoors.
   d. Never remove gas cap or add fuel while the engine is hot or running.
   e. Allow engine to cool at least two minutes before refueling.

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f. Never overfill the fuel tank. Fill tank to no more than 1/2 inch below bottom of filler neck to provide space for fuel expansion.
g. Replace gasoline cap and tighten securely.
h. If gasoline is spilled, wipe it off the engine and equipment. move machine to another area. Wait 5 minutes before starting the engine.
i. Never store the machine or fuel container inside where there is an open flame, spark or pilot light as on a water heater, space heater, furnace, clothes dryer or other gas appliances.
j. Allow machine to cool 5 minutes before storing.

Operation

1. Before starting this machine, review the "Safety Instructions". Failure to follow these rules may result in serious injury to the operator or bystanders.
2. Never leave this machine unattended with the engine running.
3. Do not operate machine while under the influence of alcohol, drugs, or medication.
4. Never allow anyone to operate this machine without proper instruction.
5. Always operate this machine with all safety equipment in place and working. Make sure all controls are properly adjusted for safe operation.
6. Do not change the engine governor settings or overspeed the engine. The governor controls the maximum safe operating speed of the engine.
7. When loading a log, always place your hands on the sides of the log, not on the ends, and never use your foot to help stabilize a log. Failure to do so, may result in crushed or amputated fingers, toes, hand, or foot.
8. Use only your hand to operate the controls.
9. Never attempt to split more than one log at a time unless the ram has fully extended and a second log is needed to complete the separation of the first log.
10. For logs which are not cut square, the least square end and the longest portion of the log should be placed toward the beam and wedge, and the square end placed toward the end plate.
11. When splitting in the vertical position, stabilize the log before moving the control. Split as follows:
    a. Place log on the end plate and turn until it leans against the beam and is stable.
    b. When splitting extra large or uneven logs, the log must be stabilized with wooden shims or split wood between the log and end plate or ground.
12. Always keep fingers away from any cracks that open in the log while splitting. They can quickly close and pinch or amputate your fingers.
13. Keep your work area clean. Immediately remove split wood around the machine so you do not stumble over it.
14. Never move this machine while the engine is running.
15. This machine should not be towed on any street, highway or public road without checking the existing federal, state, or local vehicle requirements. Any licensing or modifications such as taillights, etc., needed to comply, is the sole responsibility of the purchaser. If a "Statement of Origin" is required in your state, see your local dealer.
16. Do not tow machine faster than 45mph.
17. See Transporting the Log Splitter section in this manual for proper towing instructions once all federal, local, or state requirements are met.

Maintenance and Storage

1. Stop the engine, disconnect the spark plug and ground it against the engine before cleaning, or inspecting the machine.
2. Stop the engine and relieve hydraulic system pressure before repairing or adjusting fittings, hoses, tubing, or other system components.
3. To prevent fires, clean debris and chaff from the engine and muffler areas. If the engine is equipped with a spark arrester muffler, clean and inspect it regularly according to manufacturers instructions. Replace if damaged.
4. Periodically check that all nuts and bolts, hose clamps, and hydraulic fittings are tight to be sure equipment is in safe working condition.
5. Check all safety guards and shields to be sure they are in the proper position. Never operate with safety guards, shields, or other protective features removed.
6. The pressure relief valve is preset at the factory. Do not adjust the valve.
7. Never attempt to move this machine over hilly or uneven terrain without a tow vehicle or adequate help.
8. For your safety, replace all damaged or worn parts immediately with original equipment manufacturer's (O.E.M.) parts only. "Use of parts which do not meet the original equipment specifications may lead to improper performance and compromise safety!"
9. Do not alter this machine in any manner, alterations such as attaching a rope or extension to the control handle, or adding to the width or height of the wedge may result in personal injury.

Your Responsibility

Restrict the use of this power machine to persons who read, understand and follow the warnings and instructions in this manual and on the machine. Always follow directions on safety labels found on your equipment.

2

Safe Operation Practices

WARNING

This symbol points out important safety instructions which, if not followed, could endanger the personal safety and/or property of yourself and others. Read and follow all instructions in this manual before attempting to operate this machine. Failure to comply with these instructions may result in personal injury. When you see this symbol -

HEED ITS WARNING

Your Responsibility

Restrict the use of this power machine to persons who read, understand and follow the warnings and instructions in this manual.

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3

Setting Up Your Log Splitter

WARNING

Use extreme caution unpacking this machine. Some components are very heavy and will require additional people or mechanical handling equipment.

NOTE: All references in this manual to the left or right side of the log splitter is from the operating position only. Exceptions, if any, will be specified.

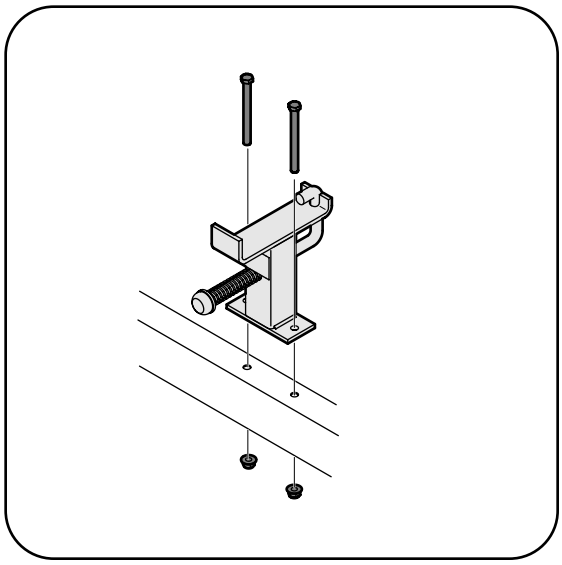

Figure 3-1

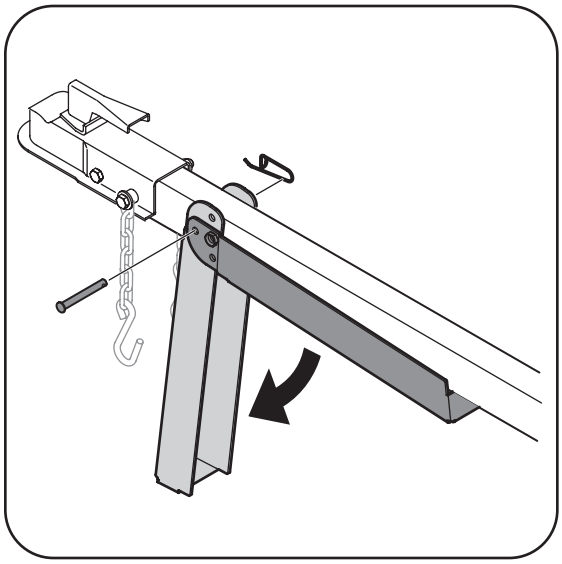

Figure 3-2

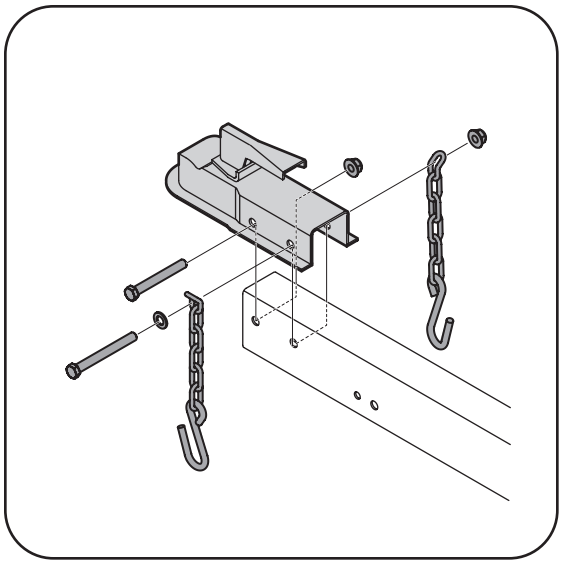

Figure 3-3

WARNING: Use extreme caution unpacking this machine. Some components are very heavy and will require additional people or mechanical handling equipment.

IMPORTANT: Your log splitter may be shipped with motor oil in the engine. You MUST check the oil level before operating. Be careful not to overfill.

NOTE: All references in this manual to the left or right side of the log splitter is from the operating position only. Exceptions, if any, will be specified.

NOTE: Engine styles and models vary. The engine found on your log splitter may not resemble the engine pictured on illustrations throughout this manual. Refer to the engine manual packed seperately for all engine information and specifications.

Loose Parts In Carton

- Reservoir Tank and Engine-Pump Assembly
- Engine-Pump Assembly Hardware
- Wedge, Beam, and Cylinder Assembly
- Tongue Assembly
- Wheels
- Hitch Assembly
- Beam Support/Latch Bracket
- Log Cradle Brackets and Hardware
- Fenders (If Equipped)
- Tail Light Kit (If Equipped)
- 2 Hub Caps

Assembling the Tongue

Attaching the Beam Support

1. Remove the two hex bolts and lock nuts from the tongue. See Figure 3-1.
2. Place the beam support/latch bracket on the tongue and secure with the hex bolts and lock nuts previously removed. Tighten securely.

Attaching the Jack Stand

The jack stand is shipped in the transport position.

1. Remove the spring clip and clevis pin and pivot the jack stand towards the ground to the operating position.
2. Secure the jack stand in position with the clevis pin and spring clip. See Figure 3-2.

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Attaching The Hitch Assembly

1. Remove the hardware assembled on the hitch assembly and place the hitch on the end of the tongue.
2. Insert hex bolt through flat washer, end of safety chain, and then rear hitch hole. Pivot the end of safety chain so it faces the ball end of hitch. See Figure 3-3.
3. Insert the other safety chain on the other end of the hex bolt and secure with flange lock nut.
4. Insert hex bolt through the front hole of hitch and secure with flange lock nut. Tighten both flange lock nuts to 23 ft-lbs.

Assembling The Fenders (If Equipped), The Wheels, Tongue, and Beam

If equipped with fenders:

1. Remove the self tapping screw and flat washer from the tank and the self tapping screw, flat washer, and lock nut from the fender mount bracket. See Figure 3-4.
2. Place fender on fender mount bracket.
3. Insert screw through flat washer, hole in top of fender, and fender mount bracket. Secure with lock nut.
4. Insert self tapping screw through flat washer, the hole in side of fender, and into the hole in the tank it was removed from in Step 1. See Figure 3-4. Tighten securely.

Attaching The Wheels To The Reservoir Tank Assembly

1. Block up the reservoir tank assembly about eight to twelve inches.
2. Remove and discard plastic shipping caps on the outside of the wheels.
3. Remove the cotter pin, hex slotted nut, and flat washer from each axle. See Figure 3-5.

NOTE: It is recommended that you wipe the axles with emery cloth before you install the wheels.

4. Place a wheel on each axle with the valve stem facing outward.
5. Place a flat washer on each axle and secure with hex slotted nut.
6. Tighten slotted nut until snug and then back off approximately 1/3 turn or until one of the slots on the slotted nut lines up with the hole in the axle.
7. Insert cotter pins through slots in nuts and holes in axle and secure by bending the ends of the cotter pins in opposite directions.

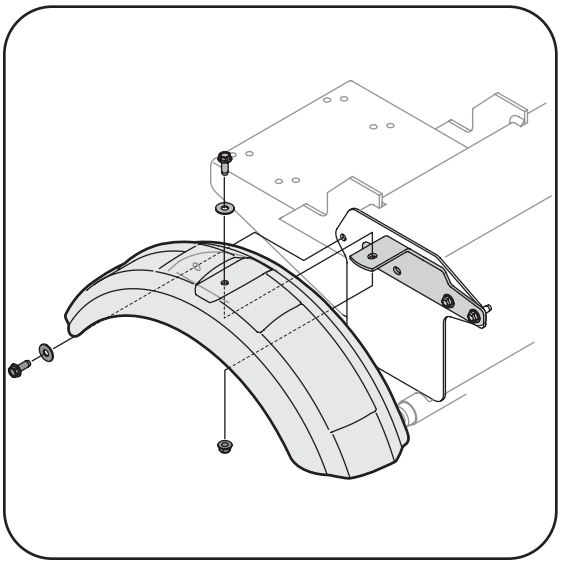

Figure 3-4

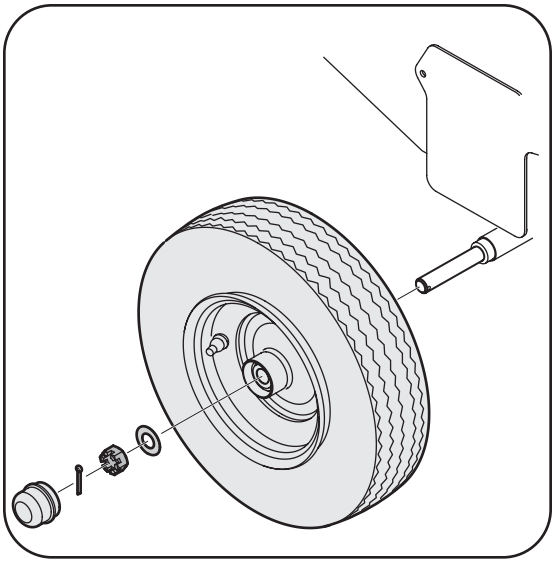

Figure 3-5

NOTE: The wheels should spin freely and there should be no side to side play.

8. Place hub caps in position on wheels and tap onto axle with a soft hammer or mallet. See Figure 3-5.

WARNING: Maximum tire pressure under any circumstance is 30 psi. Equal tire pressure should be maintained at all times.

3

Setting Up Your Log Splitter

WARNING

Maximum tire pressure under any circumstance is 30 psi. Equal tire pressure should be maintained at all times.

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3

Setting Up Your Log Splitter

WARNING

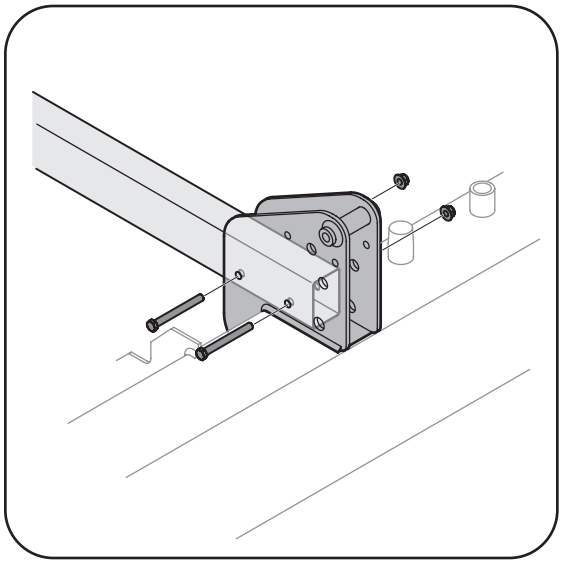

Figure 3-6

Attaching The Tongue

1. Remove the two hex bolts and lock nuts on the front of the reservoir tank.
2. Place the tongue in position and secure with hardware just removed. See Figure 3-6.
3. Remove the reservoir tank from the blocks.

Attaching Beam To Reservoir Tank (See Figure 6)

For shipping purposes, the pressure hose is attached to the pump on the engine and to the control valve on the cylinder.

1. Disconnect the pressure hose from the adapter on the pump.
2. Stand the wedge, beam, and cylinder assembly upright with cylinder toward the top.

NOTE: This step might require two people.

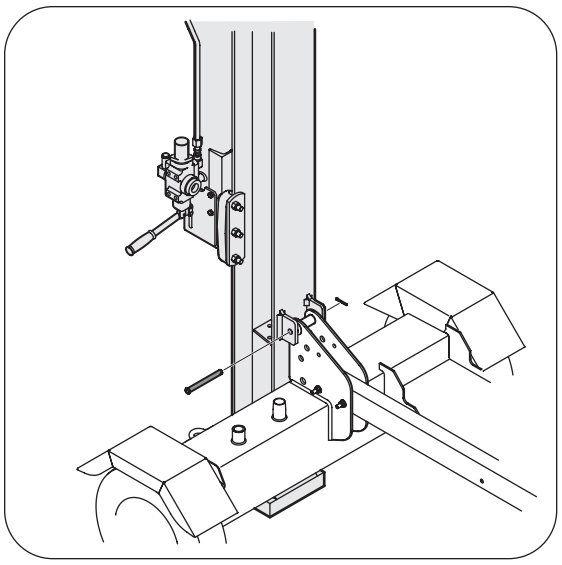

Figure 3-7

3. Remove cotter pin and clevis pin from welded brackets on beam assembly and move the reservoir tank assembly in position against the beam.
4. Insert clevis pin just removed through brackets on beam and reservoir tank assembly. Secure with cotter pin by bending the ends of the pin in opposite directions. See Figure 3-7.

Attaching Engine-Pump Assembly

1. Place the engine and pump assembly in position on the engine mounting bracket with the pump facing out.
2. Align holes in base of engine with appropriate holes in engine mounting bracket.
3. Secure the engine and pump assembly with four hex bolts, bell washers, and lock nuts found packed with the Operator's Manual. Using a torque wrench, tighten to 14 ft-lbs. See Figure 3-8.

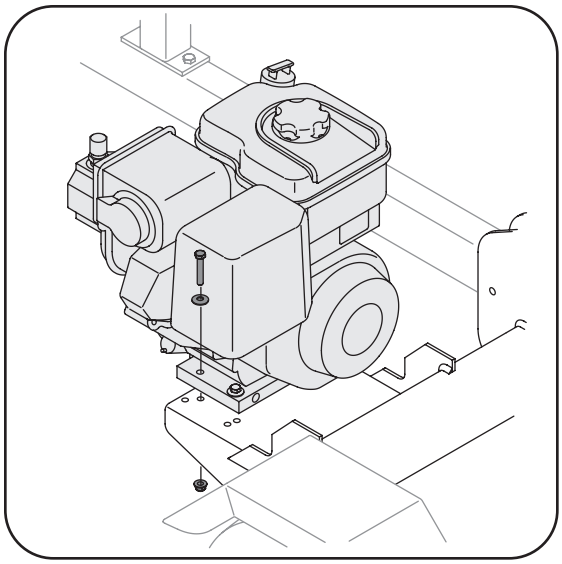

Figure 3-8

Attaching The Hoses

Suction Hose

The suction hose is attached to the reservoir tank, beneath the engine mounting bracket.

1. Loosen the hose clamp on the free end of the hose. Remove any protective insert from the end of the hose.
2. Remove the protective cap from the fitting on the bottom of the pump (some oil may flow from pump).
3. Attach the end of the suction hose to the fitting on the bottom of the pump. See Figure 3-9.
4. Place the hose clamp at the base of the fitting and tighten securely.

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WARNING

Pressure Hose

The pressure hose is attached to the control valve.

1. Route the hose between the beam and the tongue.
2. Secure the pressure hose to the adapter on the top of the pump. See Figure 3-9.

Return Hose

The return hose is attached to the top of the control valve.

1. Loosen the hose clamp on the free end of the hose. Cut the securing strap. Remove any protective insert from the end of the hose.
2. Remove the protective cap from the fitting on top of the filter head.
3. Attach the end of the hose to the fitting on top of the filter. Place the hose clamp at the base of the fitting and tighten securely. See Figure 3-10.

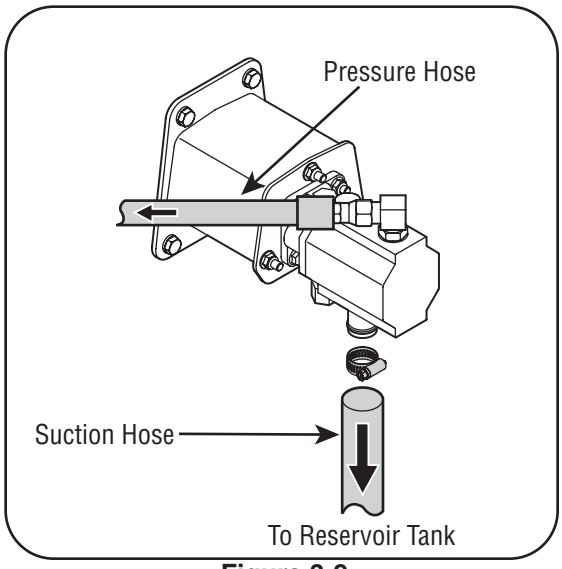

Figure 3-9

Attaching The Log Cradle

1. Pull the beam lock on the beam support/latch bracket out and pivot it down. Carefully lower the wedge, beam, and cylinder assembly to the horizontal position. Pull out and rotate beam lock to secure beam in the horizontal position.

NOTE: The hardware for attaching the log cradle may be found packed with the Operator's Manual.

2. Place one cradle support bracket against the lower outside surface of one of the beam flanges.
3. Insert two self tapping screws through the cradle support bracket and the beam flange. Do not tighten at this time. See Figure 3-11.
4. Attach the second cradle support bracket to the same side of the beam in the same manner.
5. Place one log cradle over the support brackets and align the bolts holes.
6. Insert four self tapping screws through the log cradle and cradle support brackets. Tighten all eight self tapping screws securely. See Figure 3-11.
7. Attach the other cradle support brackets and log cradle to the other side of the beam in the same manner.

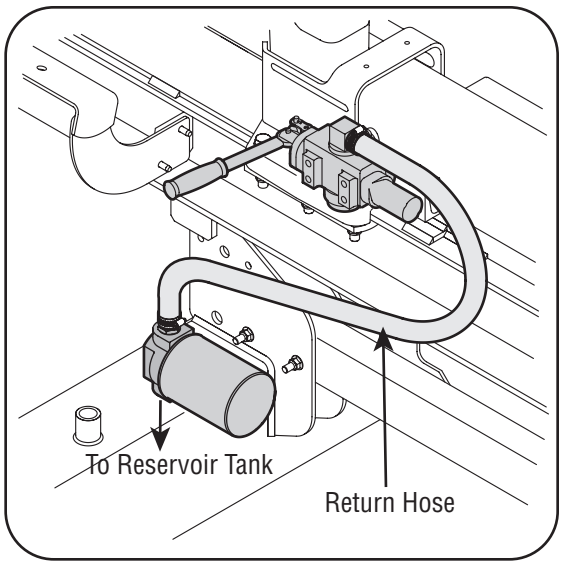

Figure 3-10

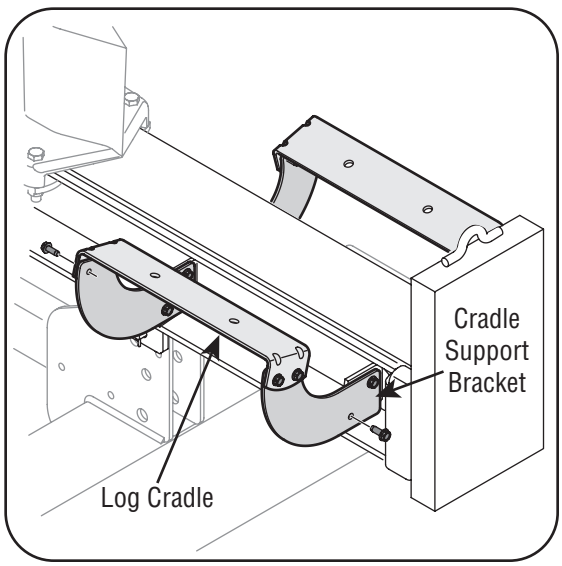

Figure 3-11

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3

Setting Up Your Log Splitter

WARNING

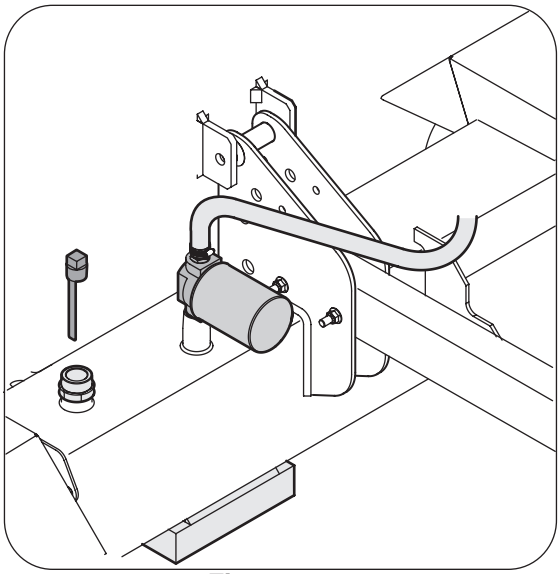

Figure 3-12

Preparing the Log Splitter

1. Lubricate the beam area (where the splitting wedge will slide) with engine oil; do not use grease.
2. Remove vented reservoir dipstick, which is located next to the hydraulic filter on top of the reservoir tank. See Figure 3-12.
3. The log splitter may have been shipped with hydraulic fluid in the reservoir tank. If not, fill the reservoir tank with hydraulic fluid included with this unit (if equipped) or approved fluids which include Dexron® III / Mercon® III automatic transmission fluid, a 10 Weight AW hydraulic oil or Pro-Mix™ AW-32 Hydraulic Oil.

NOTE: The reservoir tank has a capacity of 7 gallons.

4. Check fluid level using the dipstick. Do not overfill.
5. Replace vented dipstick securely, tightening it until the top of the threads are flush with top of the pipe.
6. Disconnect the spark plug and prime the pump by pulling the recoil starter as far as it will go. Repeat approximately 10 times.
7. Reconnect the spark plug wire and start engine following instructions in the OPERATION section.

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8. Use control handle to engage the wedge to the farthest extended position. Then retract the wedge.
9. Refill tank as specified on the dipstick.
10. Extend and retract the wedge 12 complete cycles to remove trapped air in the system (the system is "self-bleeding").
11. Refill reservoir within range marked on the dipstick. See Figure 3-13.

WARNING: Much of the original fluid has been drawn into the cylinder and hoses. Make certain to refill the reservoir to prevent damage to the hydraulic pump. Failure to refill the tank will void unit's warranty.

NOTE: Some fluid may overflow from the vent plug as the system builds heat and the fluid expands and seeks a balanced level.

IMPORTANT: Do not operate the log splitter without the proper amount of transmission fluid in the reservoir tank.

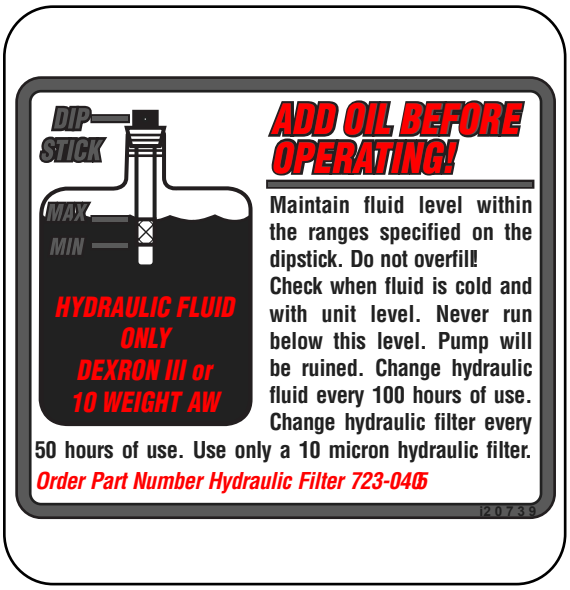

Figure 3-13

8. Use control handle to engage the wedge to the farthest extended position. Then retract the wedge.
9. Refill tank as specified on the dipstick.
10. Extend and retract the wedge 12 complete cycles to remove trapped air in the system (the system is "self-bleeding").
11. Refill reservoir within range marked on the dipstick. See Figure 3-13.

WARNING: Much of the original fluid has been drawn into the cylinder and hoses. Make certain to refill the reservoir to prevent damage to the hydraulic pump.

WARNING

Much of the original fluid has been drawn into the cylinder and hoses. Make certain to refill the reservoir to prevent damage to the hydraulic pump. Failure to refill the tank will void unit's warranty.

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4

Operating Your Log Splitter

IMPORTANT
Your log splitter may be shipped with motor oil in the engine. You MUST check the oil level before operating. Be careful not to overfill.

Know Your Log Splitter

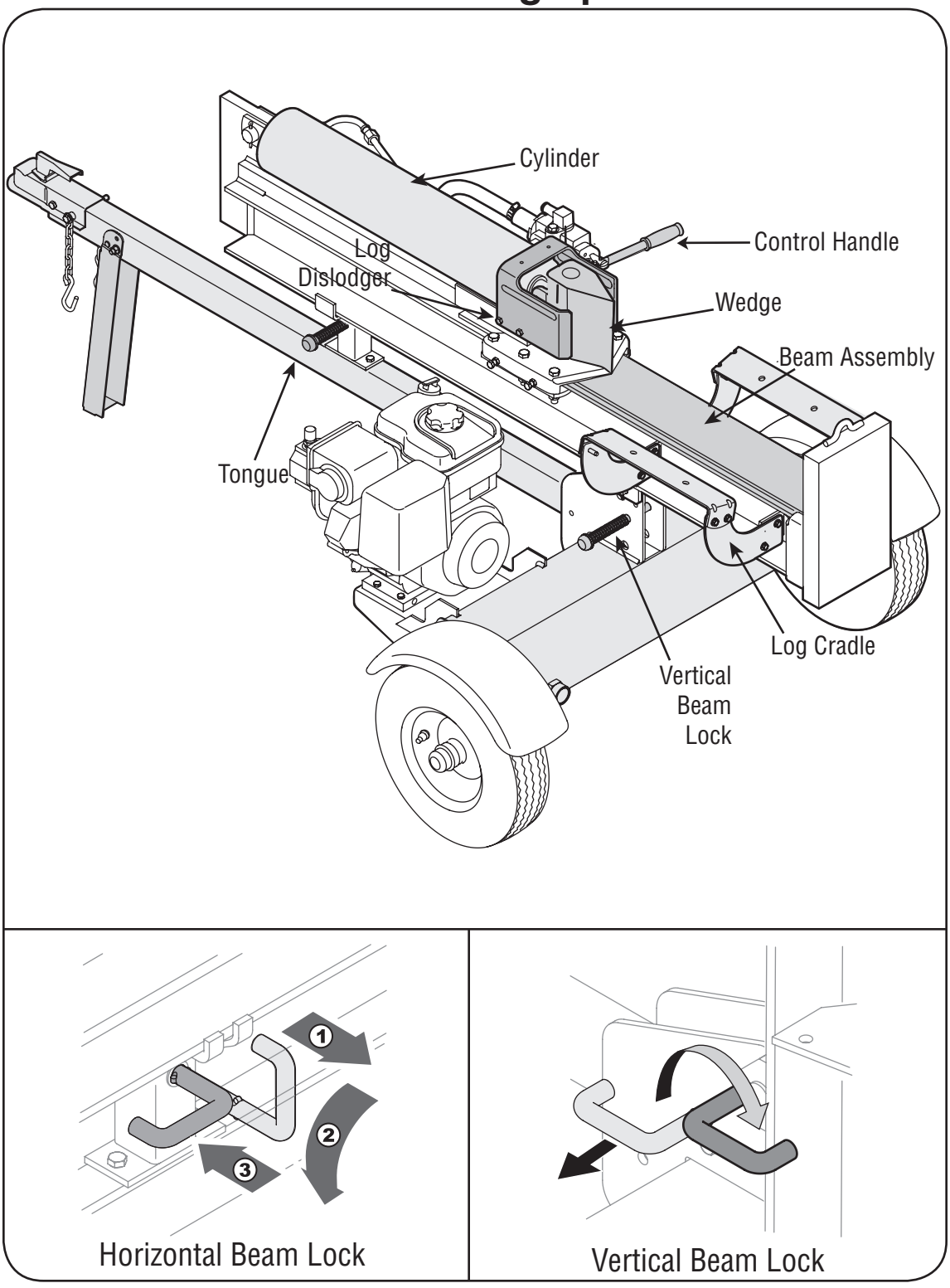

Figure 4-1

Beam Locks
These two locks, as their name suggests, are used to secure the beam in the horizontal or the vertical position. The vertical beam lock is located next to the oil filter. The horizontal beam lock is located on the beam support latch bracket. See Figure 4-1.

Engine Controls
See the accompanying engine manual for the location and function of the controls on the engine.

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Control Handle

The control handle has three positions. See Figure 4-2.

- **FORWARD**: Move control handle FORWARD or DOWN to move wedge to split wood.

NOTE: Control handle will return to neutral position as soon as handle is released.**(Forward Position only)**

- **NEUTRAL**: Release the control handle or move the lever to neutral position to stop the wedge movement.
- **REVERSE**: Move control handle BACK or UP to return the wedge toward the cylinder. The control handle stays in the return (Reverse) position and returns to neutral automatically when fully retracted.

NOTE: Reverse position may also be operated back to neutral position manually, if necessary.

Stopping Engine

1. Move throttle control handle to STOP or OFF position.
2. Turn off the engine switch, if so equipped.
3. Disconnect spark plug wire and ground against the engine to prevent unintended starting.

IMPORTANT: Your log splitter may be shipped with motor oil in the engine. You MUST check the oil level before operating. Be careful not to overfill.

WARNING: Read, understand, and follow all instructions and warnings on the machine and in this manual before operating.

WARNING: Wear leather work gloves, safety shoes, ear protection, and safety glasses when operating a log splitter. Ensure safe footing.

Gas and Oil Fill-Up

1. Service the engine with gasoline and oil as instructed in the engine manual packed with your log splitter. Read instructions carefully.

WARNING: Use extreme care when handling gasoline. Gasoline is extremely flammable and the vapors are explosive. Never fuel machine indoors or while the engine is hot or running.

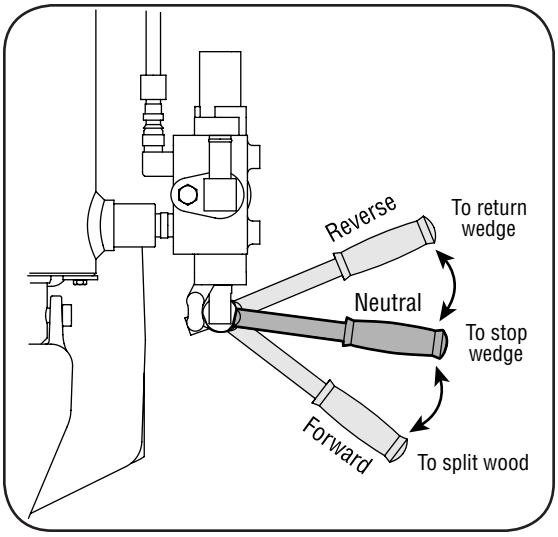

Figure 4-2

IMPORTANT: Your log splitter is shipped with motor oil in the engine. However, you MUST check the oil level before operating. Be careful not to overfill.

NOTE: Gasoline can be added to the engine when the log splitter is in either the horizontal or vertical position. However, there are less obstructions when the unit is in the vertical position.

Starting Engine

1. Attach spark plug wire to spark plug. Make certain the metal cap on the end of the spark plug wire is fastened securely over metal tip of the spark plug.
2. Turn fuel valve (or engine switch), if equipped, to the ON position.
3. Move choke lever, if equipped, to CHOKE position.
4. If the engine is equipped with a primer, follow instructions in the engine manual to prime it.
5. Turn the throttle control (if equipped) to the FAST position.
6. Grasp starter handle and pull rope out slowly until engine reaches start of compression cycle (rope will pull slightly harder at this point).
7. Pull rope with a rapid, full arm stroke. Keep firm grip on starter handle. Let rope rewind slowly. Repeat until engine cranks.
8. After engine starts, move choke lever (if equipped) to OFF position. Place throttle lever to the speed desired.
9. In cold weather, run wedge up or down beam 6 to 8 times to circulate the hydraulic fluid.

WARNING: When starting a warm engine, the muffler and surrounding areas are hot and can cause a burn. Do not touch.

4

Operating Your Log Splitter

WARNING

Read, understand, and follow all instructions and warnings on the machine and in this manual before operating.

Wear leather work gloves, safety shoes, ear protection, and safety glasses when operating a log splitter. Ensure safe footing.

Use extreme care when handling gasoline. Gasoline is extremely flammable and the vapors are explosive. Never fuel machine indoors or while the engine is hot or running.

When starting a warm engine, the muffler and surrounding areas are hot and can cause a burn. Do not touch.

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4

Operating Your Log Splitter

WARNING

Never remove partially split wood from the wedge with your hands. Fingers may become trapped between split wood.

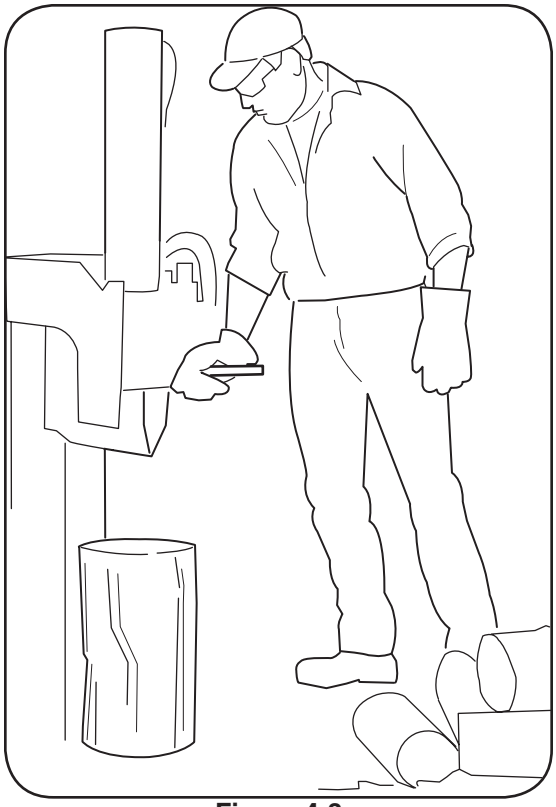

Figure 4-3

Before Each Use

1. Remove the dipstick and check hydraulic fluid level. Refill if necessary. Approved fluids include Dexron® III / Mercon® III automatic transmission fluid, a 10 Weight AW hydraulic oil or Pro-Mix™ AW-32 Hydraulic Oil.
2. Check engine oil level. Refill if necessary.
3. Fill up gasoline if necessary.
4. Lubricate the beam area where splitting wedge will slide with engine oil. Do not use grease to lubricate. Make sure to lubricate both the front and the back of the beam face.
5. Attach spark plug wire to the spark plug.

Using the Log Splitter

1. Place the log splitter on level, dry ground.
2. Place the beam in either the horizontal or vertical position and lock in place with the appropriate locking rod.
3. Block the front and back of both wheels.
4. Place the log against the end plate and only split wood in the direction of the grain.
5. To stabilize the log, place your hand only on sides of log. **Never place hand on the end between the log and the splitting wedge.**
6. Only one adult should stabilize the log and operate the control handle, so the operator has full control over the log and the splitting wedge.

Control Handle

1. Move control handle FORWARD or DOWN to split wood.
2. Release the control handle to stop the wedge movement.
3. Move control handle BACK or UP to return the wedge.

Log Dislodger

The log dislodger is designed to remove any partially split wood from the wedge. This may occur while splitting large diameter wood or freshly cut wood.

WARNING: Never remove partially split wood from the wedge with your hands. Fingers may become trapped between split wood.

1. To remove partially split wood from wedge, move control handle to REVERSE position until wedge is fully retracted to allow split wood portion to contact the log dislodger.
2. Once removed from wedge with log dislodger, split wood from opposite end or in another location.

Vertical Position

1. Pull the horizontal beam lock out to release the beam and pivot the beam to the vertical position.
2. To lock the beam in the vertical position, pull out on the vertical beam lock and rotate it to secure the beam. See Figure 4-1.
3. Stand in front of the unit to operate the control handle and to stabilize the log. See Figure 4-3.

Horizontal Position

1. Pull the vertical beam lock out and rotate it down. See Figure 4-1. Pivot beam to the horizontal position.
2. To lock the beam in the horizontal position, pull out on the horizontal beam lock and rotate it to secure the beam.
3. Stand behind the reservoir tank to operate control handle and to stabilize the log.

Operating Tips

Always:

1. Use clean fluid and check fluid level regularly.
2. Use an approved hydraulic fluid. Approved fluids include Dexron® III / Mercon® III automatic transmission fluid, a 10 Weight AW hydraulic oil or Pro-Mix™ AW-32 Hydraulic Oil.
3. Use a filter (clean or replace regularly).
4. Use a breather cap on fluid reservoir.
5. Make sure pump is mounted and aligned properly.

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6. Use a flexible “spider” type coupling between engine and pump drive shafts.
7. Keep hoses clear and unblocked.
8. Bleed air out of hoses before operating.
9. Flush and clean hydraulic system before restarting after servicing.
10. Use “pipe dope” on all hydraulic fittings.
11. Allow time for warm-up before splitting wood.
12. Prime the pump before initial start-up by turning over the engine with spark plug disconnected.
13. Split wood along the grain (lengthwise) only.

Never:

1. Use when fluid is below 20° F or above 150° F.
2. Use a solid engine /pump coupling.
3. Operate through relief valve for long.
4. Attempt to adjust unloading or relief valve settings without pressure gauges.
5. Operate with air in hydraulic system.
6. Use teflon tape on hydraulic fittings.
7. Attempt to cut wood across the grain.
8. Attempt to remove partially split wood from the wedge with your hands. Fully retract wedge to dislodge wood with log dislodger.

Raising and Lowering Beam

1. Use control handle to run wedge up and down beam 6 to 8 times to circulate the hydraulic fluid, which will warm and thin the fluid.
2. Place log splitter on a firm, level surface.

To raise the beam for vertical operation:

3. Pull out the horizontal beam lock on the tongue.
4. Pivot beam lock down to release the beam.
5. Move the beam to the vertical position. Secure it with the beam lock on the reservoir tank assembly.

WARNING: Always use the log splitter in the vertical position when splitting heavy logs.

To lower the beam:

1. Pull out the vertical beam lock on the reservoir tank.
2. Pivot beam lock down to release the beam.
3. Carefully pull back on beam and lower it to the horizontal position.
4. To lock the beam in the horizontal position, pull out on the horizontal beam lock and rotate it to secure the beam. See Figure 4-1.

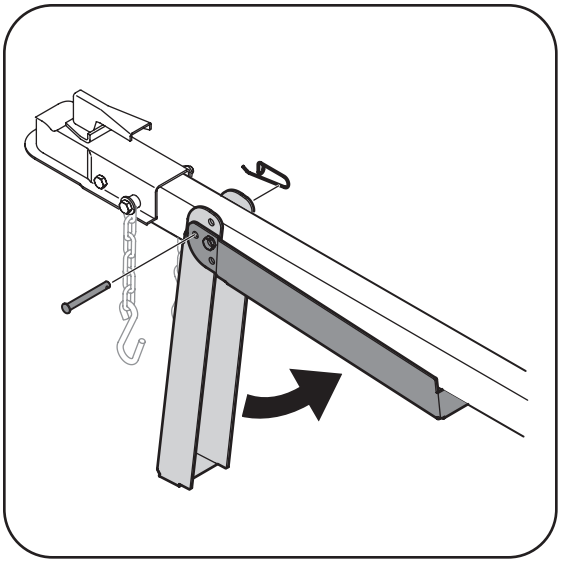

Figure 4-4

Transporting the Log Splitter

IMPORTANT: Always turn fuel valve to OFF position before transporting the log splitter.

1. Lower the beam to its horizontal position. Make certain the beam is locked securely with the horizontal beam lock.
2. Remove spring clip and clevis pin from jack stand.
3. Support the tongue and pivot the jack stand up against the tongue. See Figure 4-4.
4. Secure with the spring clip and clevis pin previously removed. See Figure 4-4.
5. Attach coupler hitch to a class I or higher 2” ball on a towing vehicle; latch securely.
   a. **If coupler hitch does not fit on ball**: Turn adjustment nut one turn counter-clockwise.
   b. **If coupler hitch is too loose on ball**: Turn adjustment nut one turn clockwise.
6. Connect the safety chains to the towing vehicle.
7. Plug in the tail lights, if so equipped, to the tail light connector on the tow vehicle.

WARNING: Do not tow faster than 45mph and check local, state, and federal requirements before towing on any public road.

NOTE: Use caution when backing up. It is recommended to use a spotter outside the vehicle.

4

Operating Your Log Splitter

WARNING

Always use the log splitter in the vertical position when splitting heavy logs.

Do not tow faster than 45mph and check local, state, and federal requirements before towing on any public road.

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5

Maintaining Your Log Splitter

WARNING

Do not at any time make any adjustments without first stopping engine, disconnecting spark plug wire, and grounding it against the engine. Always wear safety glasses during operation or while performing any adjustments or repairs.

Before cleaning, lubricating, repairing, or inspecting, disengage the control lever and stop engine. Disconnect the spark plug wire and ground it against the engine to prevent unintended starting. Always wear safety glasses during operation or while performing any adjustments or repairs.

Higher pressure could cause the hoses to burst, cylinder to rupture, and intense fluid to be released, which could result in serious personal injury.

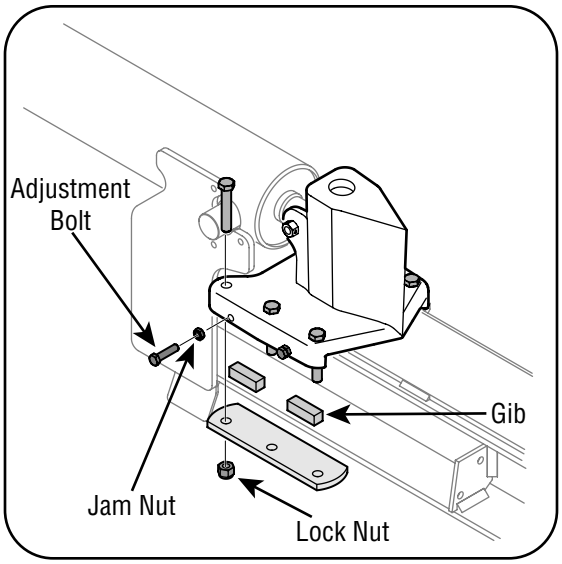

Figure 5-1

WARNING: Do not at any time make any adjustments without first stopping engine, disconnecting spark plug wire, and grounding it against the engine. Always wear safety glasses during operation or while performing any adjustments or repairs.

Wedge Assembly Adjustment

As normal wear occurs and there is excessive "play" between the wedge and beam, adjust the bolts on the side of the wedge assembly to eliminate excess space between the wedge and the beam.

1. Loosen the jam nuts on the two adjustment bolts on the side of the wedge. See Figure 5-1.
2. Turn the adjustment bolts in until snug and then back them off slowly (approximately 1.5 turns) until the wedge assembly will slide on the beam.
3. Re-tighten the jam nuts securely against the side of the wedge to secure the adjustment bolts in this position.

Gib Adjustment

Periodically remove and replace the "gibs" (spacers) between the wedge assembly and the back plate.

NOTE: The gibs may be rotated and/or turned over for even wear.

1. Loosen the lock nuts under each back plate and slide the gibs out. See Figure 5-1.
2. Turn or replace the gibs.
3. Reassemble the back plate and secure with the lock nuts.
4. Readjust the bolts on the side of the wedge assembly.

WARNING: Before cleaning, lubricating, repairing, or inspecting, disengage the control lever and stop engine. Disconnect the spark plug wire and ground it against the engine to prevent unintended starting. Always wear safety glasses during operation or while performing any adjustments or repairs.

Conditions that Will Void Warranty

1. Failure to maintain proper fluid level in reservoir
2. Changing the relief valve setting or pressure adjustment of control valve without proper knowledge and instruction from the factory

WARNING: Higher pressure could cause the hoses to burst, cylinder to rupture, and intense fluid to be released, which could result in serious personal injury.

3. Disassembling the pump
4. Use of incorrect hydraulic fluid
5. Allowing the flexible pump coupler to deteriorate without proper and regular inspection
6. Lack of lubrication or improper lubrication of the beam or unit
7. Improper adjustment of splitting wedge
8. Excessive heating of the hydraulic system
9. Attempting to start unit in temperatures under 20°F without pre-heating fluid in reservoir
10. Unattended leaks in hydraulic system

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Hydraulic Fluid and Inlet Filter

- Check the hydraulic fluid level in the log splitter reservoir tank before each use. Maintain fluid level within the range specified on the dipstick at all times.
- Change the hydraulic fluid in the reservoir every 100 hours of operation. Follow the steps below:

1. Disconnect the suction hose from the bottom of the reservoir tank.
2. Carefully unthread the inlet filter and clean it with penetrating oil. See Figure 5-2.
3. Allow the fluid to drain into a suitable container.
4. Reinsert the filter and refill the reservoir with seven (7) gallons of oil. Approved fluids include Dexron® III / Mercon® III automatic transmission fluid, a 10 Weight AW hydraulic oil or Pro-Mix™ AW-32 Hydraulic Oil.

- Maintain fluid level within the range specified on the dipstick at all times.

NOTE: Always dispose of used hydraulic fluid and engine oil at approved recycling centers only.

- Contaminants in fluid may damage the hydraulic components. 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 dealer.

Hydraulic Filter

- Change the hydraulic filter every 50 hours of operation. Use only a 10 micron hydraulic filter. Order part number 723-0405.

Beam and Splitting Wedge

- Lubricate both sides of the beam (where it comes into contact with the splitting wedge), before each use, with engine oil. The wedge plate on the log splitter is designed so the gibs on the side of the wedge plate can be removed and rotated and/or turned over for even wear.
- Make certain to readjust the adjustment bolts so wedge moves freely, but no excess space exists between the wedge plate and the beam.

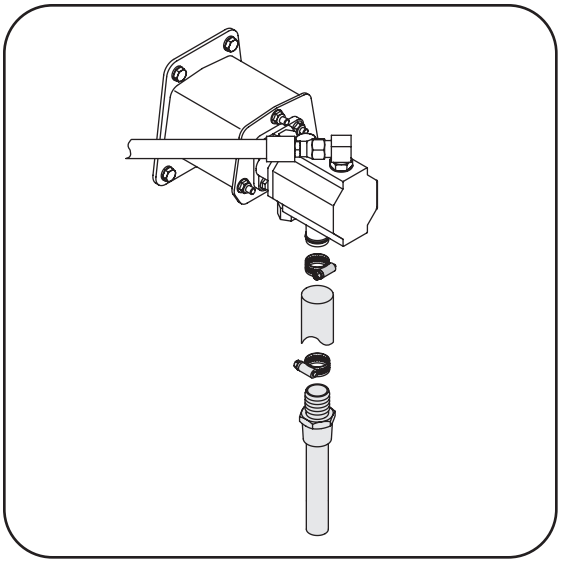

Figure 5-2

Hose Clamps

- Check, before each use, if hose clamps on the suction hose (attached to the side of the pump) are tight. Check the hose clamps on the return hose at least once a season.

Engine

Refer to the separate engine manual for all maintenance instructions.

Flexible Pump Coupler

The flexible pump coupler is a nylon “spider” insert, located between the pump and the engine shaft. Over time, the coupler will harden and deteriorate.

Replace the coupler if you detect vibration or noise coming from the area between the engine and the pump. If the coupler fails completely, you will experience a loss of power.

IMPORTANT: Never hit the engine shaft in any manner, as a blow will cause permanent damage to the engine.

5

Maintaining Your Log Splitter

NOTE: Always dispose of used hydraulic fluid and engine oil at approved recycling centers only.

IMPORTANT
Never hit the engine shaft in any manner, as a blow will cause permanent damage to the engine.

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5

Maintaining Your Log Splitter

WARNING

Excessive pressure when seating beads may cause tire/rim assembly to burst with force sufficient to cause serious injury. Refer to sidewall of tire for recommended pressure.

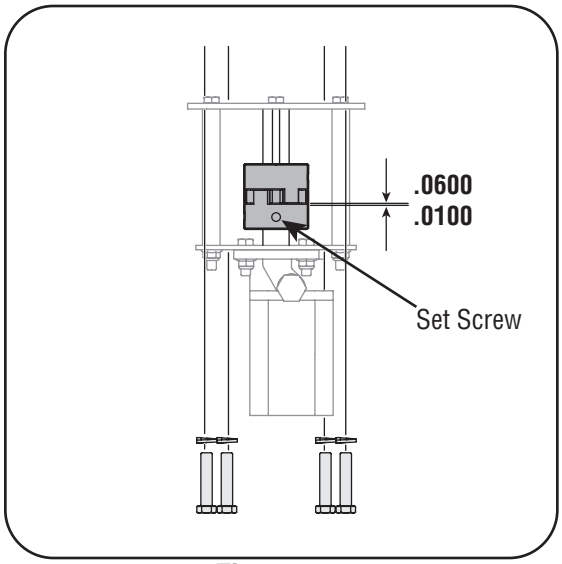

Figure 5-3

1. Remove three nuts that secure the pump to the coupling shield. Two nuts are at the bottom corners and one is in the top center. See Figure 5-3.
2. Remove the pump.
3. Rotate the engine by slowly pulling starter handle until engine coupling half set screw is at bottom. Loosen set screw using allen wrench and slide coupling half off engine shaft.
4. Loosen set screw on pump coupling half and remove coupling half.
5. Slide new engine coupling half onto the engine shaft until the end of the shaft is flush with the inner portion of the coupling half. (There must be space between the end of the engine support bracket and coupling half). Tighten set screw.
6. Install pump coupling half and key on pump shaft. Rotate coupling half until set screw faces down. Do not tighten set screw.
7. Install nylon “spider” onto engine coupling half.
8. Align pump coupling half with nylon “spider” by rotating engine using starter handle. Slide coupling half into place while guiding three mounting bolts through holes in pump support bracket.
9. Secure with nuts removed earlier.
10. Set.010” to.060” clearance/gap between the nylon “spider” and the engine coupling half by sliding a feeler gauge or matchbook cover between the nylon “spider” and the engine coupling half and moving pump coupling half as needed. Secure pump coupling half with set screw. See Figure 5-3.

NOTE: Make certain proper clearance/gap is obtained before tightening set screw.

Tires

See sidewall of tire for recommended pressure. Under any circumstances do not exceed manufacturer’s recommended psi. Maintain equal pressure on all tires.

WARNING: Excessive pressure when seating beads may cause tire/rim assembly to burst with force sufficient to cause serious injury. Refer to sidewall of tire for recommended pressure.

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Storing Your Log Splitter

Prepare your log splitter for storage at the end of the season or if the log splitter will not be used for 30 days or more.

WARNING: Never store machine with fuel in the fuel tank inside of building where fumes may reach an open flame or spark, or where ignition sources are present such as hot water and space heaters, furnaces, clothes dryers, stoves, electric motors, etc.

1. Clean the log splitter thoroughly.

NOTE: We do not recommend the use of pressure washers or garden hose to clean your unit. They may cause damage to bearings or the engine. The use of water will result in shortened life and reduce serviceability.

2. Wipe unit with an oiled rag to prevent rust, especially on the wedge and the beam.
3. Drain fuel tank. Always drain fuel into approved container outdoors, away from open flame. Be sure that engine is cool before draining the fuel. Do not smoke while handling fuel.
4. Start the engine and let it run until the fuel lines and carburetor are empty.
5. Remove spark plug. Holding a rag over the cylinder hole, pour approximately 1/2 ounce (approximately one tablespoon) of engine oil into cylinder and crank slowly to distribute the oil.
6. Replace spark plug.
7. Do not store gasoline from one season to another.
8. Replace your gasoline can if it starts to rust. Rust and/or dirt in the gasoline will cause problems.
9. Store unit in a clean, dry area. Do not store next to corrosive materials, such as fertilizer.

NOTE: If storing in an unventilated or metal storage shed, be certain to rustproof the equipment by coating with a light oil or silicone.

5

Maintaining Your Log Splitter

WARNING

Never store machine with fuel in the fuel tank inside of building where fumes may reach an open flame or spark, or where ignition sources are present such as hot water and space heaters, furnaces, clothes dryers, stoves, electric motors, etc.

NOTE: We do not recommend the use of pressure washers or garden hose to clean your unit. They may cause damage to bearings or the engine. The use of water will result in shortened life and reduce serviceability.

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6

Trouble Shooting

For repairs beyond the minor adjustments listed here, contact an authorized service dealer.

Problem	Cause	Remedy
Engine fails to start	1. Spark plug wire disconnected. 2. Fuel tank empty or stale fuel. 3. Choke, if equipped, not in CHOKE position. 4. Faulty spark plug. 5. Blocked fuel line. 6. Engine (if equipped with a primer) not primed properly. 7. Throttle control lever not in correct starting position.	1. Connect wire to spark plug. 2. Fill tank with clean, fresh gasoline. 3. Move choke to CHOKE position. 4. Clean, adjust gap, or replace. 5. Clean fuel line. 6. Prime engine. 7. Move throttle lever to FAST position.
Engine runs erratic	1. Unit running with CHOKE applied, if so equipped. 2. Spark plug wire loose. 3. Blocked fuel line or stale fuel. 4. Water or dirt in fuel system. 5. Dirty air cleaner. 6. Carburetor not adjusted properly.	1. Move choke lever to OFF position. 2. Connect and tighten spark plug wire. 3. Clean fuel line; fill tank with clean, fresh (less than 30 days old) gasoline. 4. Drain fuel tank. Refill with fresh fuel. 5. Clean or replace air cleaner. 6. See authorized service dealer.
Engine Overheats	1. Engine oil level low. 2. Dirty air cleaner. 3. Carburetor not adjusted properly.	1. Fill crankcase with proper oil. 2. Clean or replace air cleaner. 3. See authorized service dealer.

Hydraulic Trouble Shooting

Problem	Cause	Remedy
Cylinder rod will not move	1. Broken drive shaft. 2. Shipping plugs left in hydraulic hoses. 3. Set screws in coupling not adjusted properly. 4. Loose shaft coupling. 5. Gear sections damaged. 6. Damaged relief valve. 7. Hydraulic lines blocked. 8. Incorrect oil level. 9. Damaged directional valve. 10. Blocked directional valve.	1. See authorized service dealer. 2. Disconnect hydraulic hoses, remove shipping plugs, reconnect hoses. 3. See operator's manual for correct adjustment. 4. Correct engine/pump alignment as necessary. 5. See authorized service dealer. 6. See authorized service dealer. 7. Flush and clean hydraulic system. 8. Check oil level. 9. See authorized service dealer. 10. Flush and clean hydraulic system.

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Problem	Cause	Remedy
Slow cylinder shaft speed while extending and retracting.	1. Gear sections damaged. 2. Excessive pump inlet vacuum. 3. Slow engine speed. 4. Damaged relief valve. 5. Incorrect oil level. 6. Contaminated oil. 7. Directional valve leaking internally. 8. Internally damaged cylinder.	1.See authorized service dealer. 2. Make certain pump inlet hoses are clear and unblocked-use short, large diameter inlet hoses. 3.See authorized service dealer. 4.See authorized service dealer. 5.Check oil level. 6.Drain oil, clean reservoir, and refill. 7.See authorized service dealer. 8.See authorized service dealer.
Leaking Cylinder	1. Broken seals. 2. Scored cylinder.	1. See authorized service dealer. 2. See authorized service dealer.
Engine runs but wood will not split or wood splits too slowly	1. Small gear section damaged. 2. Pump check valve leaking. 3. Excessive pump inlet vacuum. 4. Incorrect oil level. 5. Contaminated oil. 6. Directional valve leaking internally. 7. Overloaded cylinder. 8. Internally damaged cylinder.	1. See authorized service dealer. 2. See authorized service dealer. 3. Make certain pump inlet hoses are clear and unblocked. 4. Check oil level. 5. Drain oil, clean reservoir, and refill. 6. See authorized service dealer. 7. Do not attempt to split wood against the grain. 8. See authorized service dealer.
Engine stalls during splitting	1. Low horsepower/weak engine. 2. Overloaded cylinder.	1. See authorized service dealer. 2. Do not attempt to split wood against the grain or see authorized service dealer.
Engine will not turn or stalls under low load conditions	1. Engine/pump misalignment. 2. Frozen or seized pump. 3. Low horsepower/weak engine. 4. Hydraulic lines blocked. 5. Blocked directional valve.	1. Correct alignment as necessary. 2. See authorized service dealer. 3. See authorized service dealer. 4. Flush and clean hydraulic system. 5. Flush and clean hydraulic system.
Leaking pump shaft seal	1. Broken drive shaft. 2. Engine/pump misalignment. 3. Gear sections damaged. 4. Poorly positioned shaft seal. 5. Plugged oil breather.	1. See authorized service dealer. 2. Correct alignment as necessary. 3. See authorized service dealer. 4. See authorized service dealer. 5. Make certain reservoir is properly vented.

For repairs beyond the minor adjustments listed here, contact an authorized service dealer.

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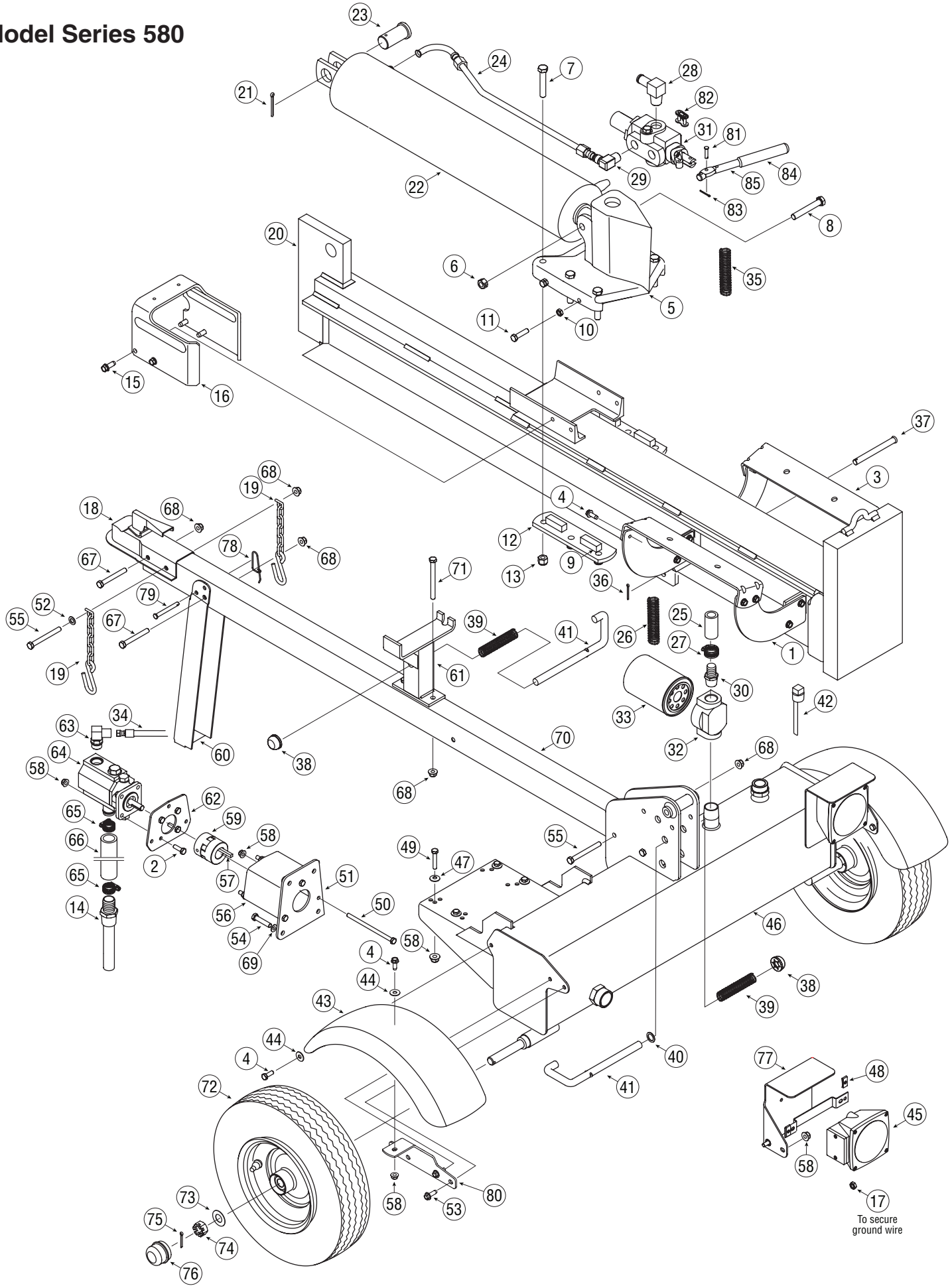
Model Series 580



For Parts Call 606-678-9623 or 606-561-4983

Ref. No.	Part No.	Description
1.	781-04180	Log Tray Bracket
2.	710-0376	Hex Screw, 5/16-18 x 1.00
3.	781-04179	Log Tray Bracket
4.	710-0650	TT Screw, 5/16-18 x .875
5.	719-0550A	Wedge Assembly
6.	712-3022	Lock Nut 1/2-13
7.	710-1018	Hex Cap Screw 1/2-20 x 2.75
8.	710-1806	Hex Cap Screw 1/2-13 x 3.25
9.	781-0351	Adjustable Gib
10.	712-0711	Hex Jam Nut 3/8-24
11.	710-0459A	Hex Cap Screw 3/8-24 x 1.5
12.	781-0790	Back Plate
13.	712-3058	Hex Lock Nut, 1/2-20
14.	737-04093	Inlet Filter
15.	710-0654A	Hex Washer Screw 3/8-16 x 1.0
16.	781-0525	Dislodger
17.	712-3008†	Jam Nut, 3/8-16
18.	681-04030	Hitch Coupler, 2-inch
19.	713-0433A	Chain
20.	681-04080	Beam Assembly
21.	714-0211	Cotter Pin
22.	718-0313	Hydraulic Cylinder 31/33 Ton
23.	711-1135	Clevis Pin
24.	727-04166	Hydraulic Tube
25.	727-0443	Return Hose 3/4” ID x 44”
26.	781-0526A	Hose Guard
27.	726-0132	Hose Clamp 5/8”
28.	737-0153	Return Elbow
29.	737-0192	90 Degree Solid Male Adapter
30.	737-0235	3/4” Hose Adapter
31.	718-0481A	Control Valve
32.	737-0316	Filter Housing
33.	723-0405	Oil Filter
34.	727-0502	High Pressure Hydraulic Hose
35.	781-0538A	Hose Guard
36.	714-0470	Cotter Pin 1/8”
37.	738-0805	Hinge Pin 1/2 x 4.8” Lg.
38.	726-0214	Push Cap
39.	732-0583	Compression Spring 4”
40.	736-0116	Flat Washer .635 ID x .93 OD
41.	781-0690	Locking Rod
42.	737-0348A	Vented Dipstick
43.	731-2499A	Fender

Ref. No.	Part No.	Description
44.	736-0371	Flat Washer, .343 x .880 x .062
45.	625-0062†	Tail Light Assembly
46.	681-04041A	Frame Assembly 7.0 Gal
47.	736-0242	Bell Washer, 340 x .872 x .060
48.	712-0292†	Nut 1/4-20
49.	710-3180	Hex Cap Screw 5/16-18 x 1.75
50.	710-0974	Hex Cap Screw 5/16-18 x 4.75
51.	781-0098A	Front Support Bracket Coupling
52.	736-0185	Flat Washer, .375 x .738 x .063
53.	710-0602	Screw, TT, 5/16-18 x 1.00
54.	710-0157	Hex Cap Screw, 5/16-24 x .75
55.	710-3085	Hex Cap Screw 3/8-16 x 3.50
56.	719-0281	Coupling Shield
57.	714-0122	Key, 3/16 x .75
58.	712-04063	Hex Flange Lock Nut, 5/16-18
59.	718-04134	Flex Coupling
60.	781-0162	Jack Stand
61.	681-0110	Support Beam Assembly
62.	781-0097	Rear Coupling Support Bracket
63.	737-0265	Adapter, 3/4-16
64.	718-04127	Pump
65.	726-0174	Hose Clamp
66.	727-0451	Suction Hose
67.	710-0521	Hex Cap Screw 3/8-16 x 3.0
68.	712-04065	Flange Lock Nut, 3/8-16
69.	736-0119	Lock Washer, 5/16
70.	781-0680A	Tube
71.	710-0411	Hex Cap Screw 3/8-16 x 4.0
72.	634-0186	Wheel Assembly
73.	736-0351	Flat Washer .76” ID x 1.5” OD
74.	712-0359	Slotted Nut 3/4-16
75.	714-0162	Cotter Pin 5/32” x 1-1/4”
76.	734-0873	Hub Cap
77.	681-04049†	Light Bracket Assembly LH
	781-04116†	Light Bracket RH
78.	732-0194	Pin, Spring
79.	711-0813	Pin, Clevis
80.	781-04174	Brkt., Mt., Fender
81.	711-04585	Clevis Pin
82.	713-04036	Valve Handle Link
83.	714-0111	Cotter Pin
84.	720-04088	Grip
85.	747-04539	Hydraulic Valve Control

† If Equipped

MTD For A Growing World. GENUINE FACTORY PARTS

To order replacement parts, call the Customer Service Line at 1-800-800-7310, or visit www.mtdproducts.com.

www.mymowerparts.com

For Parts Call 606-678-9623 or 606-561-4983

MANUFACTURER'S LIMITED WARRANTY FOR

The limited warranty set forth below is given by MTD LLC with respect to new merchandise purchased and used in the United States, its possessions and territories.

"MTD" warrants this product against defects in material and workmanship for a period of two (2) years commencing on the date of original purchase and will, at its option, repair or replace, free of charge, any part found to be defective in materials or workmanship. This limited warranty shall only apply if this product has been operated and maintained in accordance with the Operator's Manual furnished with the product, and has not been subject to misuse, abuse, commercial use, neglect, accident, improper maintenance, alteration, vandalism, theft, fire, water, or damage because of other peril or natural disaster. Damage resulting from the installation or use of any part, accessory or attachment not approved by MTD for use with the product(s) covered by this manual will void your warranty as to any resulting damage.

Normal wear parts are warranted to be free from defects in material and workmanship for a period of thirty (30) days from the date of purchase. Normal wear parts include, but are not limited to items such as: batteries, belts, blades, blade adapters, grass bags, rider deck wheels, seats, snow thrower skid shoes, shave plates, auger spiral rubber and tires.

HOW TO OBTAIN SERVICE: Warranty service is available, WITH PROOF OF PURCHASE, through your local authorized service dealer. To locate the dealer in your area, check your Yellow Pages, or contact MTD LLC at P.O. Box 361131, Cleveland, Ohio 44136-0019, or call 1-800-800-7310 or 1-330-220-4683 or log on to our Web site at www.mtdproducts.com.

This limited warranty does **not** provide coverage in the following cases:

a. The engine or component parts thereof. These items may carry a separate manufacturer's warranty. Refer to applicable manufacturer's warranty for terms and conditions.

b. Log splitter pumps, valves, and cylinders have a separate one year warranty.

c. Routine maintenance items such as lubricants, filters, blade sharpening, tune-ups, brake adjustments, clutch adjustments, deck adjustments, and normal deterioration of the exterior finish due to use or exposure.

d. Service completed by someone other than an authorized service dealer.

e. MTD does not extend any warranty for products sold or exported outside of the United States, its possessions and territories, except those sold through MTD's authorized channels of export distribution.

f. Replacement parts that are not genuine MTD parts.

g. Transportation charges and service calls.

No implied warranty, including any implied warranty of merchantability of fitness for a particular purpose, applies after the applicable period of express written warranty above as to the parts as identified. No other express warranty, whether written or oral, except as mentioned above, given by any person or entity, including a dealer or retailer, with respect to any product, shall bind MTD. During the period of the warranty, the exclusive remedy is repair or replacement of the product as set forth above.

The provisions as set forth in this warranty provide the sole and exclusive remedy arising from the sale. MTD shall not be liable for incidental or consequential loss or damage including, without limitation, expenses incurred for substitute or replacement lawn care services or for rental expenses to temporarily replace a warranted product.

Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above exclusions or limitations may not apply to you.

In no event shall recovery of any kind be greater than the amount of the purchase price of the product sold. **Alteration of safety features of the product shall void this warranty.** You assume the risk and liability for loss, damage, or injury to you and your property and/or to others and their property arising out of the misuse or inability to use the product. This limited warranty shall not extend to anyone other than the original purchaser or to the person for whom it was purchased as a gift.

HOW STATE LAW RELATES TO THIS WARRANTY: This limited warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

IMPORTANT: Owner must present Original Proof of Purchase to obtain warranty coverage.

MTD LLC, P.O. BOX 361131 CLEVELAND, OHIO 44136-0019; Phone: 1-800-800-7310, 1-330-220-4683

www.mymowerparts.com