

27 Ton Log Splitter Model 570

IMPORTANT: Read safety rules and instructions carefully before operating equipment.

Warning: This unit is equipped with an internal combustion engine and should not be used on or near any unimproved forestcovered, 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 368022 Cleveland, Ohio 44136-9722.

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

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FINDING MODEL NUMBER

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.



Before you start assembling your new equipment, please locate the model plate on the equipment and copy the information from it in the space provided below. A sample model plate is also given below. 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 manufacturer's web site and/or help from the Customer Support Department or an authorized service dealer.

OTROY-BILT . www.troybilt.com	TROY-BILT LLC P. O. BOX 361131 CLEVELAND, 0H 44135
,	330-558-7220 1-800-520-5520

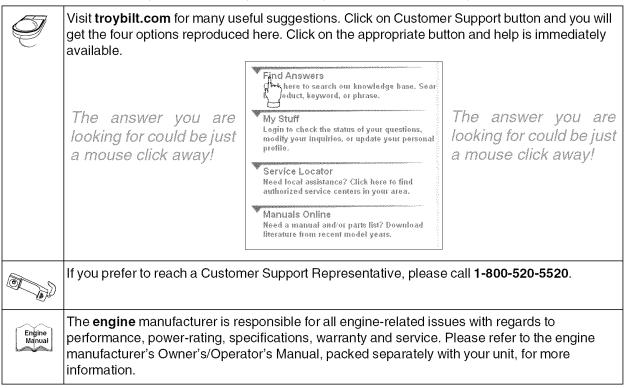
Copy the model number here: _____

Copy the serial number here: _____

CUSTOMER SUPPORT

Please do NOT return the unit to the retailer from where 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:



SECTION 1: IMPORTANT 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**.

WARNING: Engine exhaust, some of its constituents, and certain vehicle components contain or emit chemicals known to the State of California to cause cancer, 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

- 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.
- 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.
- 5. 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.
- 6. If injured by escaping fluid, see a doctor immediately. Serious infection or reaction can develop if proper medical treatment is not administered immediately.
- 7. Keep the operator zone and adjacent area clear for safe, secure footing.

- 8. 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.
- 9. This machine should be used for splitting wood only, do not use it for any other purpose.
- 10. 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.
 - 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

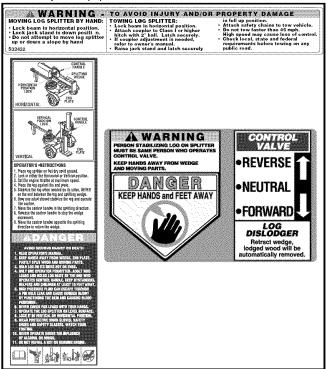
- 1. Before starting this machine, review the "Safety Instructions". Failure to follow these rules may result in serious injury to the operator or bystanders.
- 2. Never leave this machine unattended with the engine running.
- 3. Do not operate machine while under the influence of alcohol, drugs, or 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.
- 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. Some of the safety labels are reproduced here. Always follow directions on safety labels found on your equipment.



SECTION 2: ASSEMBLING YOUR LOG SPLITTER

Unpacking from Crate

- Pry top, sides, and ends off the crate. Set panels aside to avoid tire puncture or personal injury.
- Remove and discard plastic bag that covers unit.
- Remove any loose parts if included with unit (i.e., operator's manual, etc.)
- Cut and remove straps which secure parts to bottom of crate. Unbolt any remaining parts which may be bolted to the bottom of the crate.



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

Loose Parts In Carton

- Tongue assembly
- Tail light kit

Before Assembly

• Disconnect the spark plug wire and ground against the engine to prevent unintended starting.

NOTE: Reference to right or left hand side of the log splitter is observed from the operating position.

Assembling the Tongue

Attaching the Jack Stand

- The jack stand is shipped in the transport position. Remove the spring clip and clevis pin and pivot the jack stand towards the ground to the operating position.
- Secure the jack stand in position with the clevis pin and spring clip. See Figure 1.

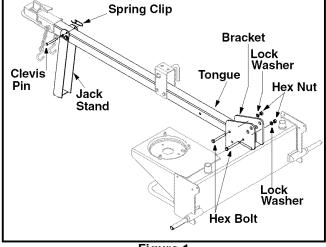


Figure 1

Attaching the Tongue

- With the log splitter still standing upright, remove two hex bolts, lock washers, and hex nuts from the end of the tongue. See Figure 1.
- Align the holes in the tongue with the holes in the tank bracket and secure with hardware just removed. See Figure 1.

NOTE: *High pressure hose must be above the tongue assembly.*

Connecting Cylinder to Beam

• The log splitter is shipped with the beam in the vertical position. Pull out the vertical beam lock, rotate it back, and pivot the beam to the horizontal position until it locks. See Figure 2.

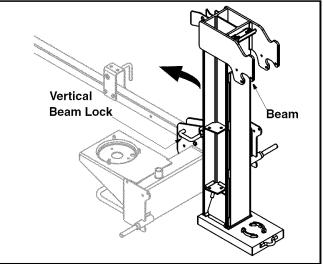


Figure 2

• Disconnect the dislodger from the beam weld bracket by removing the six hex screws and flat washers. See Figure 3.

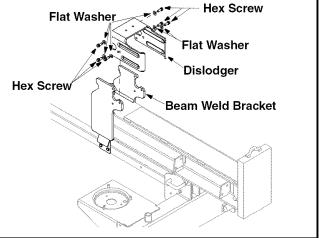


Figure 3

• Disconnect the log cradle from the beam on the side of the control valve. See Figure 4.

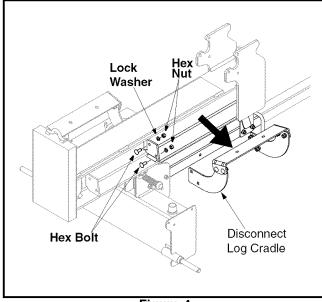


Figure 4

- Lift and slide the cylinder up to the top of beam and into the weld brackets.
- Attach the dislodger over the wedge assembly and secure with hardware, previously removed, to the weld brackets. See Figure 5.

NOTE: Once the six hex screws are tightened, there may be a slight gap between the dislodger and the weld brackets. This gap is normal.

- Reattach the log cradle to the side of the beam with the control valve, aligning the ends of the cradle with the beam flanges. See Figure 5.
- Roll log splitter off the bottom crate.

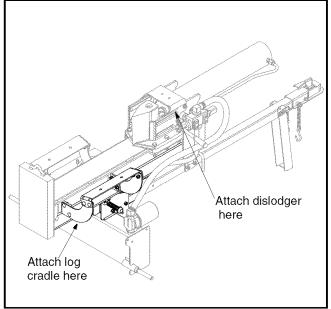


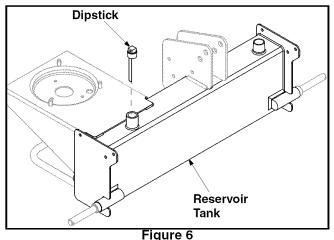
Figure 5

Preparing the Log Splitter

- Lubricate the beam area (where the splitting wedge will slide) with engine oil; do not use grease.
- Remove vented reservoir dipstick, which is located in front of the engine on top of the reservoir tank. See Figure 6.
- Fill the reservoir tank with Dexron III automatic transmission fluid or 10W AW hydraulic fluid.

NOTE: The reservoir tank has a capacity of 3.5 gallons.

- Check fluid level using the dipstick. See Figure 6.
- Do not overfill. Replace vented dipstick securely, tightening it until the top of the threads are flush with top of the pipe.



- Make sure the spark plug wire is disconnected. Then prime the pump by pulling the recoil starter as far as it will go. Repeat approximately 10 times.
- Reconnect the spark plug wire and start engine following instructions in the OPERATION section.
- Use control handle to engage the wedge to the farthest extended position. Then retract the wedge.
- Refill tank as specified on the dipstick.

NOTE: Failure to refill the tank will void unit's warranty.

- Extend and retract the wedge 12 complete cycles to remove trapped air in the system (the system is "self-bleeding").
- Refill reservoir within range marked on the dipstick.



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.

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

• Attach taillights as instructed in the taillight kit manual included with your log splitter.

SECTION 3: KNOW YOUR LOG SPLITTER

Compare the illustration in Figure 7 below with the controls on your log splitter, and get familiar with its features before starting to operate. Know how to stop the machine quickly in the event of an emergency.

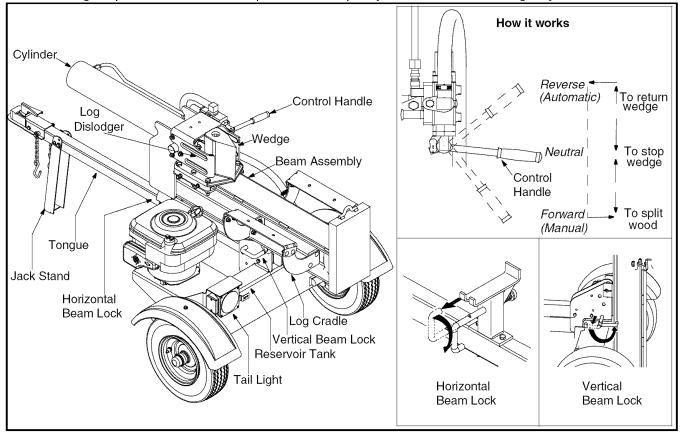


Figure 7

Control Handle

The control handle has three positions. See Figure 7.

• **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.

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 7.

Engine Controls

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

Stopping Engine

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

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.

SECTION 4: OPERATING YOUR LOG SPLITTER



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

• 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.

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

- 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.
- Turn fuel valve, if equipped, to the ON position.
- Move choke lever, if equipped, to CHOKE position.
- If the engine is equipped with a primer, follow instructions in the engine manual to prime it.
- Turn the throttle control handle to the FAST position.
- Grasp starter handle and pull rope out slowly until engine reaches start of compression cycle (rope will pull slightly harder at this point).
- Pull rope with a rapid, full arm stroke. Keep firm grip on starter handle. Let rope rewind slowly. Repeat until engine cranks.
- After engine starts, move choke lever to OFF position. Place throttle lever to the speed desired.
- 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.

Before Each Use

- Remove the dipstick and check hydraulic fluid level. Refill if necessary.
- Check engine oil level. Refill if necessary.
- Fill up gasoline if necessary.
- Lubricate with engine oil the beam area where splitting wedge will slide. Do not use grease to lubricate. Make sure to lubricate both the front and the back of the beam face.
- Attach spark plug wire to the spark plug.

Using the Log Splitter

- Place the log splitter on level, dry ground.
- Place the beam in either the horizontal or vertical position and lock in place with the appropriate locking rod.
- Block the front and back of both wheels.
- Place the log against the end plate and only split wood in the direction of the grain.
- 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.
- 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.

- 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.
- Once removed from wedge with log dislodger, split wood from opposite end or in another location.

Vertical Position

 Pull the horizontal beam lock out to release the beam and pivot the beam to the vertical position.

- To lock the beam in the vertical position, pull out on the vertical beam lock and rotate it to secure the beam. See Figure 7.
- Stand in front of the unit to operate the control handle and to stabilize the log. See Figure 8A.

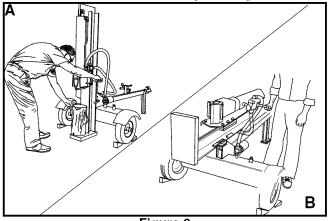


Figure 8

Horizontal Position

- Pull the vertical beam lock out and rotate it down. See Figure 7. Pivot beam to the horizontal position. The beam will lock automatically in horizontal position.
- Stand behind the reservoir tank to operate control handle and to stabilize the log. See Figure 8B.

Operating Tips

Always:

- 1. Use clean fluid and check fluid level regularly.
- 2. Use Dexron III Automatic Transmission Fluid or 10W AW hydraulic fluid.
- 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.
- 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

- 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.
- Place log splitter on a firm, level surface.
- To raise the beam for vertical operation: Pull out the vertical beam lock on the tongue.
- Pivot beam lock down to release the beam.
- Move the beam to the vertical position. Secure it with the beam lock on the reservoir tank assembly.



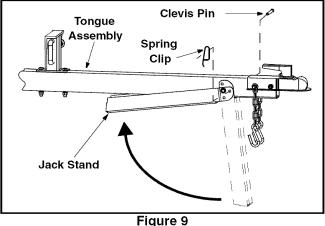
WARNING: Always use the log splitter in the vertical position when **splitting heavy logs**.

- **To lower the beam:** Pull out the horizontal beam lock on the reservoir tank.
- Pivot beam lock down to release the beam. Carefully pull back on beam and lower it to the horizontal position. The horizontal beam lock will lock automatically. See Figure 7.

Transporting the Log Splitter

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

- Lower the beam to its horizontal position. Make certain the beam is locked securely with the horizontal beam lock.
- Remove spring clip and clevis pin from jack stand.
- Support the tongue and pivot the jack stand up against the tongue. See Figure 9.



- Secure with the spring clip and clevis pin previously removed. See Figure 9.
- 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.
- Connect the safety chains to the towing vehicle.
- 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.

SECTION 5: ADJUSTING 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.

Wedge Assembly Adjustment

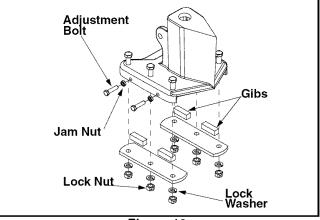
As normal wear occurs and there is excessive "play" between the wedge and beam, adjust the bolts on the side of the wedge assembly to eliminate excess space between the wedge and the beam. See Figure 10.

- Loosen the jam nuts on the two adjustment bolts on the side of the wedge. Turn the adjustment bolts in until snug and then back them off slowly until the wedge assembly will slide on the beam.
- Tighten the jam nuts securely against the side of the wedge to hold the adjustment bolts in this position.

Gib Adjustment

Periodically remove and replace the "gibs" (spacers) between the wedge assembly and the back plate. See Figure 10. **NOTE:** The gibs may be rotated and/or turned over for even wear.

- Loosen the lock nuts under the each back plate and slide the gibs out.
- Turn or replace the gibs.
- Reassemble the back plate and secure with the lock washers and lock nuts.
- Readjust the bolts on the side of the wedge assembly.





SECTION 6: MAINTAINING YOUR LOG SPLITTER



WARNING: Before cleaning, lubricating, repairing, or inspecting, disengage the control handle 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
- 3. Disassembling the pump



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.

- 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

Hydraulic Fluid

- 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.
- Disconnect the suction hose from the bottom of the reservoir tank and drain the fluid into a suitable container. Refill using only Dexron III automatic transmission fluid or 10W AW hydraulic fluid.

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

• Since contaminants in fluid may damage the hydraulic components, you will have to drain the fluid and flush the reservoir tank and hoses with kerosene whenever any repair work is performed on the tank, hydraulic pump or valve. For this job, contact your nearest 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.

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 engine manual for all maintenance needs.

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.

- Remove three nuts and lock washers that secure the pump to the coupling shield. Two nuts are at the bottom corners and one is in the top center.
- Remove the pump.
- Rotate the engine by slowly pulling starter handle until engine coupling half set screw is visible.
 Loosen set screw using allen wrench and slide coupling half off engine shaft.
- Loosen set screw on pump coupling half and remove coupling half.
- 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 end of the engine support bracket and coupling half). Tighten set screw.
- Install pump coupling half and key on pump shaft. Rotate coupling half until set screw faces opening in shield. Do not tighten set screw.
- Install nylon "spider" onto engine coupling half.
- 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.
- Secure with nuts and washers removed earlier.
- Set.010" to.060" clearance between the nylon "spider" and the engine coupling half by sliding a 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 11.

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

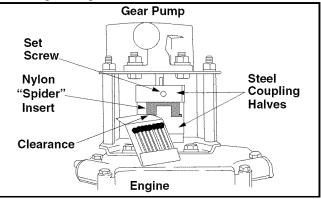


Figure 11

Tires

See sidewall of tire for recommended pressure. Maximum tire pressure under any circumstances is 30 p.s.i. Maintain equal pressure on all tires.



WARNING: Excessive pressure (over 30 p.s.i.) 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.

SECTION 7: 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.

• 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 the log splitter components or the engine. The use of water will result in shortened life and reduce serviceability.

• Wipe unit with an oiled rag to prevent rust, especially on the wedge and the beam.

- 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.
- Start the engine and let it run until the fuel lines and carburetor are empty.
- 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.
- Replace spark plug.
- Do not store gasoline from one season to another.
- Replace your gasoline can if it starts to rust. Rust and/or dirt in the gasoline will cause problems.
- 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.

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

SECTION 8: TROUBLESHOOTING

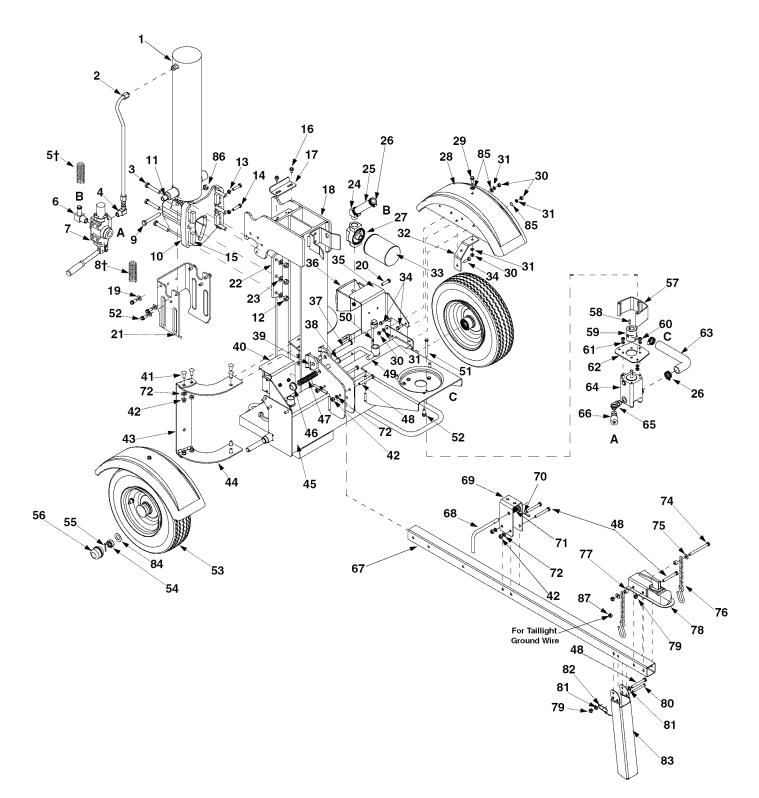
NOTE: For repairs beyond those listed above, contact your nearest authorized service center.

Hydraulic Troubleshooting

Problem	Cause	Remedy
Cylinder rod will not move	 Broken drive shaft. Shipping plugs left in hydraulic hoses. Set screws in coupling not adjusted properly. Loose shaft coupling. Gear sections damaged. Damaged relief valve. Hydraulic lines blocked. Incorrect oil level. Damaged directional valve. Blocked directional valve. 	 See authorized service dealer. Disconnect hydraulic hoses, remove shipping plugs, reconnect hoses. See operator's manual for correct adjustment. Correct engine/pump alignment as necessary. See authorized service dealer. See authorized service dealer. Flush and clean hydraulic system. Check oil level. See authorized service dealer. Flush and clean hydraulic system.
Slow cylinder shaft speed while extending and retracting.	 Gear sections damaged. Excessive pump inlet vacuum. Slow engine speed. Damaged relief valve. Incorrect oil level. Contaminated oil. Directional valve leaking internally. Internally damaged cylinder. 	 See authorized service dealer. Make certain pump inlet hoses are clear and unblocked-use short, large diameter inlet hoses. See authorized service dealer. See authorized service dealer. Check oil level. Drain oil, clean reservoir, and refill. See authorized service dealer. See authorized service dealer.
Leaking cylinder	 Broken seals. Scored cylinder. 	 See authorized service dealer. See authorized service dealer.
Engine runs but wood will not split or wood splits too slowly	 Small gear section damaged. Pump check valve leaking. Excessive pump inlet vacuum. Incorrect oil level. Contaminated oil. Directional valve leaking internally. Overloaded cylinder. Internally damaged cylinder. 	 See authorized service dealer. See authorized service dealer. Make certain pump inlet hoses are clear and unblocked. Check oil level. Drain oil, clean reservoir, and refill. See authorized service dealer. Do not attempt to split wood against the grain. See authorized service dealer.
Engine stalls during splitting	 Low horsepower/weak engine. Overloaded cylinder. 	 See authorized service dealer. Do not attempt to split wood against the grain or see authorized service dealer.
Engine will not turn or stalls under low load conditions	 Engine/pump misalignment. Frozen or seized pump. Low horsepower/weak engine. Hydraulic lines blocked. Blocked directional valve. 	 Correct alignment as necessary. See authorized service dealer. See authorized service dealer. Flush and clean hydraulic system. Flush and clean hydraulic system.
Leaking pump shaft seal	 Broken drive shaft. Engine/pump misalignment. Gear sections damaged. Poorly positioned shaft seal. Plugged oil breather. 	 See authorized service dealer. Correct alignment as necessary. See authorized service dealer. See authorized service dealer. Make certain reservoir is properly vented.

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

SECTION 9: PARTS LIST FOR MODEL 570



† If equipped

Model 570

1 718-0769 Hydraulic Cylinder 44. 781-0686 Log Tray Bracket 2. 727-0634 Hydraulic Tube 45. 681-0161 Frame Assembly 3. 710-1018 Hex Cap Screw 1/2-20 x 2.75 46. 728-0214 Push Cap 3. 781-05261 Hose Guard 48. 781-0521 Hex Bolt 3/8-16 x 3" 6. 737-0153 Return Elbow 49. 781-0521 Hex Screw 5/16-24 x 3.25 7. 718-0481 Control Valve 50. 737-0348A Vented Diptick 8. 781-05281 Hose Guard 51. 710-1038 Hex Screw 5/16-24 x 3.25 9. 710-1806 Hex Cap Screw 1/2-13 x 3.25 52. 710-0654A Hex Washer Screw 3/8-16 x 1.0 10. 719-0238 Nipple Pipe 1/2-14 54. 712-0359 Hotoday M Hax Cap 11. 717-0238 Nipple Pipe 1/2-14 54. 712-0353 Hotoday M Hax Cap 12. 712-0238 Nipple Pipe 1/2-14 54. 714-0122 Square Key 3/16" x.75	Ref. No.	Part No.	Part Description	Ref. No.	Part No.	Part Description
3. 710-1018 Hex Cap Screw 1/2-20 x 2.75 46. 726-0214 Push Cap 4. 737-0192 90 Degree Solid Adapter 47. 732-0583 Compression Spring 5. 737-0153 Return Elbow 49. 781-0690 Lock Rod 7. 718-0481 Control Valve 50. 737-0348 Vented Dipsick 7. 718-0481 Control Valve 50. 737-0348 Vented Dipsick 7. 718-0481 Control Valve 50. 737-0348 Vented Dipsick 7. 718-0481 Hex Cap Screw 1/2-13 x 3.25 52. 710-0654A Hex Xes Screw 5/16-8 x 1.0 7. 719-0238 Nipple Pipo 1/2-14 54. 712-0359 Stoted Nut 3/4-16 7. 712-0238 Nipple Pipo 1/2-14 57. 719-0053 Coupling Sinleid 7. 712-0238 Hav Man Nut 3/8-24 56. 734-0373 Hub Cap 7. 712-0454 Hex Xeap Screw 5/16-18 x 7.5 59. 716-0635 Coupling Sinleid 7. 781-01	1.	718-0769	Hydraulic Cylinder	44.	781-0686	Log Tray Bracket
4. 737-0192 90 Degree Solid Adapter 47. 732-0583 Compression Spring 5. 781-05261 Hex Bull Sy-16 x 3" Lex RN 137-16 x 3" 6. 737-0153 Return Elbow 49. 781-0690 Look Rod 7. 718-0481 Control Valve 50. 737-0348A Vented Dipstick 8. 781-0538 Hose Guard 51. 710-0654A Hex Washer Screw 3/6-16 x 1.0 7. 718-0550 Wedge Assembly 53. 634-0186 Wheel Assembly 10. 719-0550 Wedge Assembly 53. 634-0186 Wheel Assembly 11. 737-0238 Nipple Pipe 1/2-14 54. 712-0359 Stotted Ntt 3/4-16 12. 712-0711 Hex Jam Nut 3/8-24 55. 714-0152 Couter Pin 13. 710-0459A Hex Cap Screw 3/6-24 x 1.5 55. 714-0152 Square Key 3/16" x.75 15. 781-0351 Adjustable Gib 58. 714-052 Square Key 3/16" x.75 16. 761-0459A Hex Washer Screw 5/16-18 x 1.25 63. 727-0633 Hose 17.	2.	727-0634	Hydraulic Tube	45.	681-0161	Frame Assembly
5. 781-05261 Hose Guard 48. 710-0521 Hex Bolt 3/8-16 x 3" 6. 737-0153 Return Elbow 49. 781-0690 Lock Rod 7. 718-0481 Control Valve 50. 737-0348A Vented Dipstick 8. 781-05581 Hose Guard 51. 710-1338 Hex Sorew 3/8-16 x 1.0 10. 719-0550 Wedge Assembly 53. 634-0186 Wheel Assembly 11. 737-0238 Nipple Pipe 1/2-14 54. 712-0359 Stotted Nut 3/4-16 12. 712-0239 Lock Nut 1/2-20 55. 714-0162 Coupling Shield 13. 710-0459A Hex Vag Screw 3/8-24 x 1.5 57. 710-0357 Hex Nut 5/16-24 14. 710-0459A Hex Vag Screw 5/16-18 x.75 59. 718-0686 Flexible Coupling 17. 781-1054 Cylinder Support Bracket 60. 712-3057 Hex Nut 5/16-24 16. 616-1052 Beam Assembly 61. 737-033 Hose Flexible Coupling 17. 781-1048 Dislodger 64. 718-0687 Gear Pump (11gpm) <td>3.</td> <td>710-1018</td> <td>Hex Cap Screw 1/2-20 x 2.75</td> <td>46.</td> <td>726-0214</td> <td>Push Cap</td>	3.	710-1018	Hex Cap Screw 1/2-20 x 2.75	46.	726-0214	Push Cap
6. 737-0153 Return Elbow 49. 781-0690 Lock Rod 7. 718-0481 Control Valve 50. 737-0348A Vented Dipstick 8. 781-0538† Hose Guard 51. 710-1338 Hex Screw 5/16-24 x 3.25 9. 710-1806 Hex Cap Screw 1/2-13 x 3.25 52. 710-0654A Hex Washer Screw 3/8-16 x 1.0 10. 719-0550 Wedge Assembly 53. 634-0186 Wheel Assembly 11. 737-0238 Nipple Pipe 1/2-14 54. 712-0359 Slotted Nut 3/4-16 12. 712-0239 Lock Nut 1/2-20 55. 714-0162 Cotter Pin 13. 712-0711 Hex Jam Nut 3/8-24 56. 734-0873 Hub Cap 710-1260A Hex Washer Screw 5/16-18 x.75 59. 718-0686 Flexible Coupling 17. 781-1054 Cylinder Support Bracket 60. 712-0357 Hex Nut 5/16-24 18. 681-1062 Beam Assembly 61. 736-0119 Lock Washer 5/16" ID 19. 736-0300	4.	737-0192	90 Degree Solid Adapter	47.	732-0583	Compression Spring
7. 718-0481 Control Valve 50. 737-0348A Vented Dipstick 8. 781-05381 Hose Guard 51. 710-1338 Hex Xerew 5/16-24 x 3.25 9. 710-1806 Hex Cap Screw 1/2-13 x 3.25 52. 710-0654A Hex Washer Screw 3/8-16 x 1.0 10. 719-0550 Wedge Assembly 53. 634-0186 Wheel Assembly 11. 737-0238 Nipple Pipe 1/2-14 54. 712-0359 Slotted Nut 3/4-16 12. 712-0239 Lock Nut 1/2-20 55. 714-0162 Cotter Pin 13. 712-011 Hex Jam Nut 3/8-24 56. 714-0162 Square Key 3/16" x.75 15. 781-0351 Adjustable Gib 58. 714-0122 Square Key 3/16" x.75 16. 710-1654 Cylinder Support Bracket 60. 712-3057 Hex Kut, 5/16-24 18. 681-0162 Beam Assembly 61. 736-0119 Lock Washer 5/16" ID 19. 736-0300 Flat Washer Screw 5/16-18 x 1.25 63. 727-0532 Hose 21. 781-0780 Back Plate 65. 737-0329 45 Degr	5.	781-0526†	Hose Guard	48.	710-0521	Hex Bolt 3/8-16 x 3"
8. 781-0538† Hose Guard 51. 710-1338 Hex Screw 5/16-24 x 3.25 9. 710-1806 Hex Cap Screw 1/2-13 x 3.25 52. 710-0654A Hex Washer Screw 3/8-16 x 1.0 10. 719-0550 Wedg Assembly 53. 634-0186 Wheel Assembly 11. 737-0238 Nipple Pipe 1/2-14 54. 712-0357 Slotted Nut 3/4-16 12. 712-0711 Hex Jam Nut 3/8-24 56. 734-0673 Hub Cap 13. 712-0711 Hex Jam Nut 3/8-24 56. 714-0162 Coupling Shield 15. 711-0540 Hex Washer Screw 5/16-18 x.75 59. 718-0686 Flexible Coupling 17. 781-1054 Cylinder Support Bracket 60. 712-0357 Hub Ku, 5/16-24 18. 681-0162 Beam Assembly 61. 736-019 Rear Coupling Support Bracket 19. 736-0300 Flat Washer 4/6 ID x.875 OD 62. 781-048 Gear Pump (11gm) 2. 781-0790 Back Plate 65. 727-0533 Hose	6.	737-0153	Return Elbow	49.	781-0690	Lock Rod
9. 710-1806 Hex Cap Screw 1/2-13 x 3.25 52. 710-0654A Hex Washer Screw 3/8-16 x 1.0 10. 719-0550 Wedge Assembly 53. 634-0186 Wheel Assembly 11. 737-0238 Nipple Pipe 1/2-14 54. 712-0399 Slotted Nut 3/4-16 12. 712-0239 Lock Nut 1/2-20 55. 714-0162 Cotter Pin 13. 712-0711 Hex Cap Screw 3/8-24 x 1.5 57. 719-0353 Couping Shield 16. 701-0459A Hex Cap Screw 3/8-24 x 1.5 58. 714-0122 Square Key 3/16" x.75 16. 701-0260A Hex Washer Screw 5/16-18 x.75 59. 718-0686 Flexible Coupling 17. 781-1054 Cylinder Support Bracket 60. 712-3057 Hex Nut, 5/16-24 18. 681-0162 Beam Assembly 61. 736-011 Lock Washer 5/16" ID 19. 736-0300 Flat Washer.406 ID x.875 OD 62. 781-0097 Bear Coupling Support Bracket 20. 710-0874 Hex Washer Screw, 5/16-18 x 1.25 63. 727-063	7.	718-0481	Control Valve	50.	737-0348A	Vented Dipstick
10. 719.0550 Wedge Assembly 53. 634-0186 Wheel Assembly 11. 737-0238 Nipple Pipe 1/2-14 54. 712-0359 Stoted Nut 3/4-16 12. 712-0239 Lock Nut 1/2-20 55. 714-0162 Cotter Pin 13. 712-0211 Hex Jam Nut 3/8-24 56. 734-0873 Hub Cap 14. 710-0459A Hex Cap Screw 3/8-24 x 1.5 57. 719-0353 Coupling Shield 15. 781-0351 Adjustable Gib 58. 714-0122 Square Key 3/16" x.75 16. 710-1260A Hex Washer Screw 5/16-18 x.75 59. 718-0868 Flexible Coupling 17. 781-1054 Cylinder Support Bracket 60. 712-3057 Hex Masher Screw 5/16" ID 19. 736-0300 Flat Washer A06 ID x.875 OD 62. 781-0097 Rear Coupling Support Bracket 10. 710-0874 Hex Washer Screw, 5/16-18 x 1.25 63. 727-0633 Hose 11. 731-048 Biolodger 65. 737-0329 45 Degree Elbow 22. 781-0790 Back Plate 65. 737-0329	8.	781-0538†	Hose Guard	51.	710-1338	Hex Screw 5/16-24 x 3.25
11. 737-0238 Nipple Pipe 1/2-14 54. 712-0359 Slotted Nut 3/4-16 12. 712-0239 Lock Nut 1/2-20 55. 714-0162 Cotter Pin 13. 712-0711 Hex Jam Nut 3/8-24 56. 734-0873 Hub Cap 14. 710-0459A Hex Cap Screw 3/8-24 x 1.5 57. 719-0353 Coupling Shield 15. 781-0351 Adjustable Gib 58. 714-0122 Square Key 3/16" x.75 16. 710-1260A Hex Washer Screw 5/16-18 x.75 59. 718-0866 Flexible Coupling 17. 781-1054 Cylinder Support Bracket 60. 712-3057 Hex Nut, 5/16-24 18. 681-0162 Beam Assembly 61. 736-019 Lock Washer 5/16" ID 19. 736-0300 Flat Washer 306 ID x.875 OD 62. 781-0097 Rear Coupling Support Bracket 20. 710-0874 Hex Washer Screw, 5/16-18 x 1.25 63. 727-0633 Hose 21. 781-0790 Back Plate 64. 718-0788 Tongue Tube Assembly 22. 736-0312 Lock Washer 1/2 68. 747-1261 <td>9.</td> <td>710-1806</td> <td>Hex Cap Screw 1/2-13 x 3.25</td> <td>52.</td> <td>710-0654A</td> <td>Hex Washer Screw 3/8-16 x 1.0</td>	9.	710-1806	Hex Cap Screw 1/2-13 x 3.25	52.	710-0654A	Hex Washer Screw 3/8-16 x 1.0
12. 712-0239 Lock Nut 1/2-20 55. 714-0162 Cotter Pin 13. 712-0711 Hex Jam Nut 3/8-24 56. 734-0873 Hub Cap 14. 710-0459A Hex Cap Screw 3/8-24 x 1.5 57. 719-0353 Goupling Shield 15. 781-0351 Adjustable Gib 58. 714-0122 Square Key 3/16" x.75 16. 710-1260A Hex Washer Screw 5/16-18 x.75 59. 718-0686 Flexible Coupling 17. 781-1054 Cylinder Support Bracket 60. 712-3057 Hex Nut, 5/16-24 18. 681-0162 Beam Assembly 61. 736-0119 Lock Washer 5/16" ID 0. 710-0874 Hex Washer Screw, 5/16-18 x 1.25 63. 727-0633 Hose 21. 781-1048 Dislodger 64. 718-0683 Gear Pump (11gpm) 22. 781-0790 Back Plate 65. 737-0329 45 Degree Elbow 23. 736-0921 Lock Washer 1/2 66. 727-052 High Pressure Hydraulic Hose 24. 737-0312 Adapter 3/4-14 67. 781-1045 Latch Rod	10.	719-0550	Wedge Assembly	53.	634-0186	Wheel Assembly
13. 712-0711 Hex Jam Nut 3/8-24 56. 734-0873 Hub Cap 14. 710-0459A Hex Cap Screw 3/8-24 x 1.5 57. 719-0353 Coupling Shield 15. 781-0351 Adjustable Gib 58. 714-0122 Square Key 3/16" x.75 16. 710-1260A Hex Washer Screw 5/16-18 x.75 59. 718-0686 Flexible Coupling 17. 781-1054 Cylinder Support Bracket 60. 712-3057 Hex Nut, 5/16-24 18. 681-0162 Beam Assembly 61. 736-0119 Lock Washer 5/16" ID 19. 736-0300 Flat Washer Screw, 5/16-18 x 1.25 63. 727-0633 Hose 20. 710-0874 Hex Washer Screw, 5/16-18 x 1.25 63. 727-0633 Hose 21. 781-1078 Dislodger 64. 718-0683 Gear Pump (11gpm) 22. 781-0790 Back Plate 65. 737-0329 45 Degree Elbow 23. 736-0321 Lock Washer 1/2 66. 727-0502 High Pressure Hydraulic Hose 24. 737-0312 Adapter 3/4-14 67. 781-0788 Ton	11.	737-0238	Nipple Pipe 1/2-14	54.	712-0359	Slotted Nut 3/4-16
14. 710-0459A Hex Cap Screw 3/8-24 x 1.5 57. 719-0353 Coupling Shield 15. 781-0351 Adjustable Gib 58. 714-0122 Square Key 3/16" x.75 16. 710-1260A Hex Washer Screw 5/16-18 x.75 59. 718-0636 Flexible Coupling 17. 781-1054 Cylinder Support Bracket 60. 712-3057 Hex Nut, 5/16-24 18. 681-0162 Beam Assembly 61. 736-0119 Lock Washer 5/16" ID 19. 736-0300 Flat Washer 406 ID x.875 OD 62. 781-0097 Rear Coupling Support Bracket 20. 710-0874 Hex Washer Screw, 5/16-18 x 1.25 63. 727-0633 Hose 21. 781-0790 Back Plate 65. 737-0329 45 Degree Elbow 22. 781-0790 Back Plate 67. 781-0788 Tongue Tube Assembly 25. 727-0433 Return Hose 3/4" ID x 44" Lg. 68. 747-1261 Latch Rod 26. 726-0132 Hose Clamp 5/8" 69. 715-10120 Spiral Pin 27. 737-0316 Filter Housing 70. 715-1012	12.	712-0239	Lock Nut 1/2-20	55.	714-0162	Cotter Pin
15. 781-0351 Adjustable Gib 58. 714-0122 Square Key 3/16" x.75 16. 710-1260A Hex Washer Screw 5/16-18 x.75 59. 718-0686 Flexible Coupling 17. 781-1054 Cylinder Support Bracket 60. 712-3057 Hex Nut, 5/16-24 18. 681-0162 Beam Assembly 61. 736-0179 Lock Washer 5/16" ID 19. 736-0300 Flat Washer Screw, 5/16-18 x 1.25 63. 727-0633 Hose 20. 710-0874 Hex Washer Screw, 5/16-18 x 1.25 63. 727-0633 Hose 21. 781-0790 Back Plate 65. 737-0329 45 Degree Elbow 22. 781-0921 Lock Washer 1/2 66. 727-0520 High Pressure Hydraulic Hose 24. 737-0312 Adapter 3/4-14 67. 781-0788 Tongue Tube Assembly 25. 727-0433 Return Hose 3/4" ID x 44" Lg. 68. 747-1261 Latch 26. 726-0132 Hose Clamp 5/8" 69. 781-1045 Latch 27. 737-0316 Filter Housing 70. 715-0120 Spiral P	13.	712-0711	Hex Jam Nut 3/8-24	56.	734-0873	Hub Cap
16. 710-1260A Hex Washer Screw 5/16-18 x.75 59. 718-0686 Flexible Coupling 17. 781-1054 Cylinder Support Bracket 60. 712-3057 Hex Nut, 5/16-24 18. 681-0162 Beam Assembly 61. 736-0119 Lock Washer 5/16' ID 19. 736-0300 Flat Washer.406 ID x.875 OD 62. 781-0097 Rear Coupling Support Bracket 20. 710-0874 Hex Washer Screw, 5/16-18 x 1.25 63. 727-0633 Hose 21. 781-1048 Dislodger 64. 718-0683 Gear Pump (11gpm) 22. 781-0790 Back Plate 65. 737-0329 45 Degree Elbow 23. 736-0921 Lock Washer 1/2 66. 727-0502 High Pressure Hydraulic Hose 24. 737-0312 Adapter 3/4-14 67. 781-0788 Tongue Tube Assembly 25. 727-0433 Return Hose 3/4" ID x 44" Lg. 68. 747-1261 Latch 26. 726-0132 Hose Clamp 5/8" 72. 736-0169 L-Washer 3/8" 28. 731-2499 Steel Fender (MTD Red) 71. 732-31	14.	710-0459A	Hex Cap Screw 3/8-24 x 1.5	57.	719-0353	Coupling Shield
17. 781-1054 Cylinder Support Bracket 60. 712-3057 Hex Nut, 5/16-24 18. 681-0162 Beam Assembly 61. 736-0119 Lock Washer 5/16" ID 19. 736-0300 Flat Washer 406 ID x.875 OD 62. 781-0097 Rear Coupling Support Bracket 20. 710-0874 Hex Washer Screw, 5/16-18 x 1.25 63. 727-0633 Hose 21. 781-1048 Dislodger 64. 718-0683 Gear Pump (11gpm) 22. 781-0790 Back Plate 65. 737-0329 45 Degree Elbow 23. 736-0921 Lock Washer 1/2 66. 727-0502 High Pressure Hydraulic Hose 24. 737-0312 Adapter 3/4-14 67. 781-0788 Tongue Tube Assembly 25. 727-0443 Return Hose 3/4" ID x 44" Lg. 68. 747-1261 Latch Rod 26. 731-2499 Steel Fender (MTD Red) 71. 732-3127 Spring Compression 27. 737-0316 Filter Housing 70. 715-0120 Sprinal Pin 37. 732-919 Mex Nut 5/16-18 x.875 72. <td< td=""><td>15.</td><td>781-0351</td><td>Adjustable Gib</td><td>58.</td><td>714-0122</td><td>Square Key 3/16" x.75</td></td<>	15.	781-0351	Adjustable Gib	58.	714-0122	Square Key 3/16" x.75
18. 681-0162 Beam Assembly 61. 736-0119 Lock Washer 5/16" ID 19. 736-0300 Flat Washer.406 ID x.875 OD 62. 781-0097 Rear Coupling Support Bracket 20. 710-0874 Hex Washer Screw, 5/16-18 x 1.25 63. 727-0633 Hose 21. 781-1048 Dislodger 64. 718-0683 Gear Pump (11gpm) 22. 781-0790 Back Plate 65. 737-0329 45 Degree Elbow 23. 736-0921 Lock Washer 1/2 66. 727-0502 High Pressure Hydraulic Hose 24. 737-0312 Adapter 3/4-14 67. 781-0788 Tongue Tube Assembly 25. 727-0443 Return Hose 3/4" ID x 44" Lg. 68. 747-1261 Latch Rod 26. 726-0132 Hose Clamp 5/8" 69. 781-1045 Latch 27. 737-0316 Filter Housing 70. 715-0120 Spiral Pin 28. 731-2499 Steel Fender (MTD Red) 71. 732-3127 Spring Compression 29.	16.	710-1260A	Hex Washer Screw 5/16-18 x.75	59.	718-0686	Flexible Coupling
19. 736-0300 Flat Washer 406 ID x.875 OD 62. 781-0097 Rear Coupling Support Bracket 20. 710-0874 Hex Washer Screw, 5/16-18 x 1.25 63. 727-0633 Hose 21. 781-1048 Dislodger 64. 718-0683 Gear Pump (11gpm) 22. 781-0790 Back Plate 65. 737-0329 45 Degree Elbow 23. 736-0921 Lock Washer 1/2 66. 727-0502 High Pressure Hydraulic Hose 24. 737-0312 Adapter 3/4-14 67. 781-0788 Tongue Tube Assembly 25. 727-0443 Return Hose 3/4" ID x 44" Lg. 68. 747-1261 Latch 26. 726-0132 Hose Clamp 5/8" 69. 781-1045 Latch 27. 737-0316 Filter Housing 70. 715-0120 Spiral Pin 28. 731-2499 Steel Fender (MTD Red) 71. 732-3127 Spring Compression 29. 710-1238 Hex Washer Screw 5/16-18 x.875 72. 736-0262 Flat Washer.385 ID x.870 OD 30. 722-3010 Hex Nut 5/16-18 75. 736-0262	17.	781-1054	Cylinder Support Bracket	60.	712-3057	Hex Nut, 5/16-24
20. 710-0874 Hex Washer Screw, 5/16-18 x 1.25 63. 727-0633 Hose 21. 781-1048 Dislodger 64. 718-0683 Gear Pump (11gpm) 22. 781-0790 Back Plate 65. 737-0329 45 Degree Elbow 23. 736-0921 Lock Washer 1/2 66. 727-0502 High Pressure Hydraulic Hose 24. 737-0312 Adapter 3/4-14 67. 781-0788 Tongue Tube Assembly 25. 727-0433 Return Hose 3/4" ID x 44" Lg. 68. 747-1261 Latch Rod 26. 726-0132 Hose Clamp 5/8" 69. 781-1045 Latch 1.4 27. 737-0316 Filter Housing 70. 715-0120 Spiral Pin 1.3 28. 712-3010 Hex Nut 5/16-18 74. 710-0944 Hex Cap Screw 3/8-16 x 4.25 31. 736-0119 Lock Washer 5/16 75. 736-0262 Flat Washer.385 ID x.870 OD 32. 781-1024 Fender Mounting Bracket 76. 713-0433 Chain 33. 723-0405 Oil Filter 77. 750-0497 <td< td=""><td>18.</td><td>681-0162</td><td>Beam Assembly</td><td>61.</td><td>736-0119</td><td>Lock Washer 5/16" ID</td></td<>	18.	681-0162	Beam Assembly	61.	736-0119	Lock Washer 5/16" ID
21. 781-1048 Dislodger 64. 718-0683 Gear Pump (11gpm) 22. 781-0790 Back Plate 65. 737-0329 45 Degree Elbow 23. 736-0921 Lock Washer 1/2 66. 727-0502 High Pressure Hydraulic Hose 24. 737-0312 Adapter 3/4-14 67. 781-0788 Tongue Tube Assembly 25. 727-0443 Return Hose 3/4" ID x 44" Lg. 68. 747-1261 Latch Rod 26. 726-0132 Hose Clamp 5/8" 69. 781-1045 Latch 27. 737-0316 Filter Housing 70. 715-0120 Spiral Pin 28. 731-2499 Steel Fender (MTD Red) 71. 736-0169 L-Washer 3/8" 30. 712-3010 Hex Washer Screw 5/16-18 x.875 72. 736-0169 L-Washer 3/8" 31. 736-0119 Lock Washer 5/16 75. 736-0262 Flat Washer.385 ID x.870 OD 32. 781-1024 Fender Mounting Bracket 76. 713-0433 Chain 33. 723-0405 Oil Filter 77. 750-0497 Spacer.375 ID x.625 OD	19.	736-0300	Flat Washer.406 ID x.875 OD	62.	781-0097	Rear Coupling Support Bracket
22. 781-0790 Back Plate 65. 737-0329 45 Degree Elbow 23. 736-0921 Lock Washer 1/2 66. 727-0502 High Pressure Hydraulic Hose 24. 737-0312 Adapter 3/4-14 67. 781-0788 Tongue Tube Assembly 25. 727-0443 Return Hose 3/4" ID x 44" Lg. 68. 747-1261 Latch Rod 26. 726-0132 Hose Clamp 5/8" 69. 781-1045 Latch 27. 737-0316 Filter Housing 70. 715-0120 Spiral Pin 28. 731-2499 Steel Fender (MTD Red) 71. 732-3127 Spring Compression 29. 710-1238 Hex Washer Screw 5/16-18 x.875 72. 736-0169 L-Washer 3/8" 30. 712-3010 Hex Nut 5/16-18 74. 710-0944 Hex Cap Screw 3/8-16 x 4.25 31. 736-0119 Lock Washer 5/16 75. 736-0262 Flat Washer.385 ID x.870 OD 32. 781-1024 Fender Mounting Bracket 76. 713-0433 Chain 33. 723-0405 Oil Filter 77. 750-0497 Spacer.375 ID x.	20.	710-0874	Hex Washer Screw, 5/16-18 x 1.25	63.	727-0633	Hose
23. 736-0921 Lock Washer 1/2 66. 727-0502 High Pressure Hydraulic Hose 24. 737-0312 Adapter 3/4-14 67. 781-0788 Tongue Tube Assembly 25. 727-0443 Return Hose 3/4" ID x 44" Lg. 68. 747-1261 Latch Rod 26. 726-0132 Hose Clamp 5/8" 69. 781-1045 Latch 27. 737-0316 Filter Housing 70. 715-0120 Spiral Pin 28. 731-2499 Steel Fender (MTD Red) 71. 732-3127 Spring Compression 29. 710-1238 Hex Washer Screw 5/16-18 x.875 72. 736-0169 L-Washer 3/8" 30. 712-3010 Hex Nut 5/16-18 74. 710-0944 Hex Cap Screw 3/8-16 x 4.25 31. 736-0119 Lock Washer 5/16 75. 736-0262 Flat Washer.385 ID x.870 OD 32. 781-1024 Fender Mounting Bracket 76. 713-0433 Chain 33. 723-0405 Oil Filter 77. 750-0497 Spacer.375 ID x.625 OD 34. 710-3038 Hex Cap Screw, 5/16-18 x.875 78. 681-04030	21.	781-1048	Dislodger	64.	718-0683	Gear Pump (11gpm)
24. 737-0312 Adapter 3/4-14 67. 781-0788 Tongue Tube Assembly 25. 727-0443 Return Hose 3/4" ID x 44" Lg. 68. 747-1261 Latch Rod 26. 726-0132 Hose Clamp 5/8" 69. 781-1045 Latch 27. 737-0316 Filter Housing 70. 715-0120 Spiral Pin 28. 731-2499 Steel Fender (MTD Red) 71. 732-3127 Spring Compression 29. 710-1238 Hex Washer Screw 5/16-18 x.875 72. 736-0169 L-Washer 3/8" 30. 712-3010 Hex Nut 5/16-18 74. 710-0944 Hex Cap Screw 3/8-16 x 4.25 31. 736-0119 Lock Washer 5/16 75. 736-0262 Flat Washer.385 ID x.870 OD 32. 781-1024 Fender Mounting Bracket 76. 713-0433 Chain 33. 723-0405 Oil Filter 77. 750-0497 Spacer.375 ID x.625 OD 34. 710-3038 Hex Cap Screw, 5/16-18 x.875 78. 681-04030 Hitch Coupling 35. 681-0164 Light Bracket Assembly - LH 79. 712-0375	22.	781-0790	Back Plate	65.	737-0329	45 Degree Elbow
25.727-0443Return Hose 3/4" ID x 44" Lg.68.747-1261Latch Rod26.726-0132Hose Clamp 5/8"69.781-1045Latch27.737-0316Filter Housing70.715-0120Spiral Pin28.731-2499Steel Fender (MTD Red)71.732-3127Spring Compression29.710-1238Hex Washer Screw 5/16-18 x.87572.736-0169L-Washer 3/8"30.712-3010Hex Nut 5/16-1874.710-0944Hex Cap Screw 3/8-16 x 4.2531.736-0119Lock Washer 5/1675.736-0262Flat Washer.385 ID x.870 OD32.781-1024Fender Mounting Bracket76.713-0433Chain33.723-0405Oil Filter77.750-0497Spacer.375 ID x.625 OD34.710-3038Hex Cap Screw, 5/16-18 x.87578.681-04030Hitch Coupling35.681-0164Light Bracket Assembly - LH79.712-0375Hex Lock Nut 3/8-1636.625-0062Taillight80.711-0813Clevis Pin37.711-1587Clevis Pin81.736-0185Flat Washer.375 ID x.738 OD38.736-0116Flat Washer.635 ID x.93 OD82.732-0194Spring Pin39.714-0470Cotter Pin83.781-0789Jack Stand40.781-1027Light Bracket - RH84.736-0351Flat Washer.760 ID x.500 OD41.710-3097Carriage Bolt 3/8-16 x 1.085.736-0371Flat Washer	23.	736-0921	Lock Washer 1/2	66.	727-0502	High Pressure Hydraulic Hose
26.726-0132Hose Clamp 5/8"69.781-1045Latch27.737-0316Filter Housing70.715-0120Spiral Pin28.731-2499Steel Fender (MTD Red)71.732-3127Spring Compression29.710-1238Hex Washer Screw 5/16-18 x.87572.736-0169L-Washer 3/8"30.712-3010Hex Nut 5/16-1874.710-0944Hex Cap Screw 3/8-16 x 4.2531.736-0119Lock Washer 5/1675.736-0262Flat Washer.385 ID x.870 OD32.781-1024Fender Mounting Bracket76.713-0433Chain33.723-0405Oil Filter77.750-0497Spacer.375 ID x.625 OD34.710-3038Hex Cap Screw, 5/16-18 x.87578.681-04030Hitch Coupling35.681-0164Light Bracket Assembly - LH79.712-0375Hex Lock Nut 3/8-1636.625-0062Taillight80.711-0813Clevis Pin37.711-1587Clevis Pin81.736-0185Flat Washer.375 ID x.738 OD38.736-0116Flat Washer.635 ID x.93 OD82.732-0194Spring Pin39.714-0470Cotter Pin83.781-0789Jack Stand40.781-1027Light Bracket - RH84.736-0351Flat Washer.760 ID x.500 OD41.710-3097Carriage Bolt 3/8-16 x 1.085.736-0371Flat Washer42.712-3017Hex Nut, 3/8-1686.712-3022Hex Lock Nut, 1/2-13 <td>24.</td> <td>737-0312</td> <td>Adapter 3/4-14</td> <td>67.</td> <td>781-0788</td> <td>Tongue Tube Assembly</td>	24.	737-0312	Adapter 3/4-14	67.	781-0788	Tongue Tube Assembly
27.737-0316Filter Housing70.715-0120Spiral Pin28.731-2499Steel Fender (MTD Red)71.732-3127Spring Compression29.710-1238Hex Washer Screw 5/16-18 x.87572.736-0169L-Washer 3/8"30.712-3010Hex Nut 5/16-1874.710-0944Hex Cap Screw 3/8-16 x 4.2531.736-0119Lock Washer 5/1675.736-0262Flat Washer.385 ID x.870 OD32.781-1024Fender Mounting Bracket76.713-0433Chain33.723-0405Oil Filter77.750-0497Spacer.375 ID x.625 OD34.710-3038Hex Cap Screw, 5/16-18 x.87578.681-04030Hitch Coupling35.681-0164Light Bracket Assembly - LH79.712-0375Hex Lock Nut 3/8-1636.625-0062Taillight80.711-0813Clevis Pin37.711-1587Clevis Pin81.736-0185Flat Washer.375 ID x.738 OD38.736-0116Flat Washer.635 ID x.93 OD82.732-0194Spring Pin39.714-0470Cotter Pin83.781-0789Jack Stand40.781-1027Light Bracket - RH84.736-0351Flat Washer.760 ID x.500 OD41.710-3097Carriage Bolt 3/8-16 x 1.085.736-0371Flat Washer42.712-3017Hex Nut, 3/8-1686.712-3022Hex Lock Nut, 1/2-13	25.	727-0443	Return Hose 3/4" ID x 44" Lg.	68.	747-1261	Latch Rod
28.731-2499Steel Fender (MTD Red)71.732-3127Spring Compression29.710-1238Hex Washer Screw 5/16-18 x.87572.736-0169L-Washer 3/8"30.712-3010Hex Nut 5/16-1874.710-0944Hex Cap Screw 3/8-16 x 4.2531.736-0119Lock Washer 5/1675.736-0262Flat Washer.385 ID x.870 OD32.781-1024Fender Mounting Bracket76.713-0433Chain33.723-0405Oil Filter77.750-0497Spacer.375 ID x.625 OD34.710-3038Hex Cap Screw, 5/16-18 x.87578.681-04030Hitch Coupling35.681-0164Light Bracket Assembly - LH79.712-0375Hex Lock Nut 3/8-1636.625-0062Taillight80.711-0813Clevis Pin37.711-1587Clevis Pin81.736-0185Flat Washer.375 ID x.738 OD38.736-0116Flat Washer.635 ID x.93 OD82.732-0194Spring Pin39.714-0470Cotter Pin83.781-0789Jack Stand40.781-1027Light Bracket - RH84.736-0351Flat Washer.760 ID x.500 OD41.710-3097Carriage Bolt 3/8-16 x 1.085.736-0371Flat Washer42.712-3017Hex Nut, 3/8-1686.712-3022Hex Lock Nut, 1/2-13	26.	726-0132	Hose Clamp 5/8"	69.	781-1045	Latch
29.710-1238Hex Washer Screw 5/16-18 x.87572.736-0169L-Washer 3/8"30.712-3010Hex Nut 5/16-1874.710-0944Hex Cap Screw 3/8-16 x 4.2531.736-0119Lock Washer 5/1675.736-0262Flat Washer.385 ID x.870 OD32.781-1024Fender Mounting Bracket76.713-0433Chain33.723-0405Oil Filter77.750-0497Spacer.375 ID x.625 OD34.710-3038Hex Cap Screw, 5/16-18 x.87578.681-04030Hitch Coupling35.681-0164Light Bracket Assembly - LH79.712-0375Hex Lock Nut 3/8-1636.625-0062Taillight80.711-0813Clevis Pin37.711-1587Clevis Pin81.736-0185Flat Washer.375 ID x.738 OD38.736-0116Flat Washer.635 ID x.93 OD82.732-0194Spring Pin39.714-0470Cotter Pin83.781-0789Jack Stand40.781-1027Light Bracket - RH84.736-0351Flat Washer.760 ID x.500 OD41.710-3097Carriage Bolt 3/8-16 x 1.085.736-0371Flat Washer42.712-3017Hex Nut, 3/8-1686.712-3022Hex Lock Nut, 1/2-13	27.	737-0316	Filter Housing	70.	715-0120	Spiral Pin
30.712-3010Hex Nut 5/16-1874.710-0944Hex Cap Screw 3/8-16 x 4.2531.736-0119Lock Washer 5/1675.736-0262Flat Washer.385 ID x.870 OD32.781-1024Fender Mounting Bracket76.713-0433Chain33.723-0405Oil Filter77.750-0497Spacer.375 ID x.625 OD34.710-3038Hex Cap Screw, 5/16-18 x.87578.681-04030Hitch Coupling35.681-0164Light Bracket Assembly - LH79.712-0375Hex Lock Nut 3/8-1636.625-0062Taillight80.711-0813Clevis Pin37.711-1587Clevis Pin81.736-0185Flat Washer.375 ID x.738 OD38.736-0116Flat Washer.635 ID x.93 OD82.732-0194Spring Pin39.714-0470Cotter Pin83.781-0789Jack Stand40.781-1027Light Bracket - RH84.736-0351Flat Washer.760 ID x.500 OD41.710-3097Carriage Bolt 3/8-16 x 1.085.736-0371Flat Washer42.712-3017Hex Nut, 3/8-1686.712-3022Hex Lock Nut, 1/2-13	28.	731-2499	Steel Fender (MTD Red)	71.	732-3127	Spring Compression
31. 736-0119 Lock Washer 5/16 75. 736-0262 Flat Washer.385 ID x.870 OD 32. 781-1024 Fender Mounting Bracket 76. 713-0433 Chain 33. 723-0405 Oil Filter 77. 750-0497 Spacer.375 ID x.625 OD 34. 710-3038 Hex Cap Screw, 5/16-18 x.875 78. 681-04030 Hitch Coupling 35. 681-0164 Light Bracket Assembly - LH 79. 712-0375 Hex Lock Nut 3/8-16 36. 625-0062 Taillight 80. 711-0813 Clevis Pin 37. 711-1587 Clevis Pin 81. 736-0185 Flat Washer.375 ID x.738 OD 38. 736-0116 Flat Washer.635 ID x.93 OD 82. 732-0194 Spring Pin 39. 714-0470 Cotter Pin 83. 781-0789 Jack Stand 40. 781-1027 Light Bracket - RH 84. 736-0351 Flat Washer.760 ID x.500 OD 41. 710-3097 Carriage Bolt 3/8-16 x 1.0 85. 736-0371 Flat Washer 42. 712-3017 Hex Nut, 3/8-16 86. 712-3022 Hex L	29.	710-1238	Hex Washer Screw 5/16-18 x.875	72.	736-0169	L-Washer 3/8"
32. 781-1024 Fender Mounting Bracket 76. 713-0433 Chain 33. 723-0405 Oil Filter 77. 750-0497 Spacer.375 ID x.625 OD 34. 710-3038 Hex Cap Screw, 5/16-18 x.875 78. 681-04030 Hitch Coupling 35. 681-0164 Light Bracket Assembly - LH 79. 712-0375 Hex Lock Nut 3/8-16 36. 625-0062 Taillight 80. 711-0813 Clevis Pin 37. 711-1587 Clevis Pin 81. 736-0185 Flat Washer.375 ID x.738 OD 38. 736-0116 Flat Washer.635 ID x.93 OD 82. 732-0194 Spring Pin 39. 714-0470 Cotter Pin 83. 781-0789 Jack Stand 40. 781-1027 Light Bracket - RH 84. 736-0351 Flat Washer.760 ID x.500 OD 41. 710-3097 Carriage Bolt 3/8-16 x 1.0 85. 736-0371 Flat Washer 42. 712-3017 Hex Nut, 3/8-16 86. 712-3022 Hex Lock Nut, 1/2-13	30.	712-3010	Hex Nut 5/16-18	74.	710-0944	Hex Cap Screw 3/8-16 x 4.25
33.723-0405Oil Filter77.750-0497Spacer.375 ID x.625 OD34.710-3038Hex Cap Screw, 5/16-18 x.87578.681-04030Hitch Coupling35.681-0164Light Bracket Assembly - LH79.712-0375Hex Lock Nut 3/8-1636.625-0062Taillight80.711-0813Clevis Pin37.711-1587Clevis Pin81.736-0185Flat Washer.375 ID x.738 OD38.736-0116Flat Washer.635 ID x.93 OD82.732-0194Spring Pin39.714-0470Cotter Pin83.781-0789Jack Stand40.781-1027Light Bracket - RH84.736-0351Flat Washer.760 ID x.500 OD41.710-3097Carriage Bolt 3/8-16 x 1.085.736-0371Flat Washer42.712-3017Hex Nut, 3/8-1686.712-3022Hex Lock Nut, 1/2-13	31.	736-0119	Lock Washer 5/16	75.	736-0262	Flat Washer.385 ID x.870 OD
34. 710-3038 Hex Cap Screw, 5/16-18 x.875 78. 681-04030 Hitch Coupling 35. 681-0164 Light Bracket Assembly - LH 79. 712-0375 Hex Lock Nut 3/8-16 36. 625-0062 Taillight 80. 711-0813 Clevis Pin 37. 711-1587 Clevis Pin 81. 736-0185 Flat Washer.375 ID x.738 OD 38. 736-0116 Flat Washer.635 ID x.93 OD 82. 732-0194 Spring Pin 39. 714-0470 Cotter Pin 83. 781-0789 Jack Stand 40. 781-1027 Light Bracket - RH 84. 736-0351 Flat Washer.760 ID x.500 OD 41. 710-3097 Carriage Bolt 3/8-16 x 1.0 85. 736-0371 Flat Washer 42. 712-3017 Hex Nut, 3/8-16 86. 712-3022 Hex Lock Nut, 1/2-13	32.	781-1024	Fender Mounting Bracket	76.	713-0433	Chain
35. 681-0164 Light Bracket Assembly - LH 79. 712-0375 Hex Lock Nut 3/8-16 36. 625-0062 Taillight 80. 711-0813 Clevis Pin 37. 711-1587 Clevis Pin 81. 736-0185 Flat Washer.375 ID x.738 OD 38. 736-0116 Flat Washer.635 ID x.93 OD 82. 732-0194 Spring Pin 39. 714-0470 Cotter Pin 83. 781-0789 Jack Stand 40. 781-1027 Light Bracket - RH 84. 736-0351 Flat Washer.760 ID x.500 OD 41. 710-3097 Carriage Bolt 3/8-16 x 1.0 85. 736-0371 Flat Washer 42. 712-3017 Hex Nut, 3/8-16 86. 712-3022 Hex Lock Nut, 1/2-13	33.	723-0405	Oil Filter	77.	750-0497	Spacer.375 ID x.625 OD
36. 625-0062 Taillight 80. 711-0813 Clevis Pin 37. 711-1587 Clevis Pin 81. 736-0185 Flat Washer.375 ID x.738 OD 38. 736-0116 Flat Washer.635 ID x.93 OD 82. 732-0194 Spring Pin 39. 714-0470 Cotter Pin 83. 781-0789 Jack Stand 40. 781-1027 Light Bracket - RH 84. 736-0351 Flat Washer.760 ID x.500 OD 41. 710-3097 Carriage Bolt 3/8-16 x 1.0 85. 736-0371 Flat Washer 42. 712-3017 Hex Nut, 3/8-16 86. 712-3022 Hex Lock Nut, 1/2-13	34.	710-3038	Hex Cap Screw, 5/16-18 x.875	78.	681-04030	Hitch Coupling
37. 711-1587 Clevis Pin 81. 736-0185 Flat Washer.375 ID x.738 OD 38. 736-0116 Flat Washer.635 ID x.93 OD 82. 732-0194 Spring Pin 39. 714-0470 Cotter Pin 83. 781-0789 Jack Stand 40. 781-1027 Light Bracket - RH 84. 736-0351 Flat Washer.760 ID x.500 OD 41. 710-3097 Carriage Bolt 3/8-16 x 1.0 85. 736-0371 Flat Washer 42. 712-3017 Hex Nut, 3/8-16 86. 712-3022 Hex Lock Nut, 1/2-13	35.	681-0164	Light Bracket Assembly - LH	79.	712-0375	Hex Lock Nut 3/8-16
38. 736-0116 Flat Washer.635 ID x.93 OD 82. 732-0194 Spring Pin 39. 714-0470 Cotter Pin 83. 781-0789 Jack Stand 40. 781-1027 Light Bracket - RH 84. 736-0351 Flat Washer.760 ID x.500 OD 41. 710-3097 Carriage Bolt 3/8-16 x 1.0 85. 736-0371 Flat Washer 42. 712-3017 Hex Nut, 3/8-16 86. 712-3022 Hex Lock Nut, 1/2-13	36.	625-0062	Taillight	80.	711-0813	Clevis Pin
39. 714-0470 Cotter Pin 83. 781-0789 Jack Stand 40. 781-1027 Light Bracket - RH 84. 736-0351 Flat Washer.760 ID x.500 OD 41. 710-3097 Carriage Bolt 3/8-16 x 1.0 85. 736-0371 Flat Washer 42. 712-3017 Hex Nut, 3/8-16 86. 712-3022 Hex Lock Nut, 1/2-13	37.	711-1587	Clevis Pin	81.	736-0185	Flat Washer.375 ID x.738 OD
40.781-1027Light Bracket - RH84.736-0351Flat Washer.760 ID x.500 OD41.710-3097Carriage Bolt 3/8-16 x 1.085.736-0371Flat Washer42.712-3017Hex Nut, 3/8-1686.712-3022Hex Lock Nut, 1/2-13	38.	736-0116	Flat Washer.635 ID x.93 OD	82.	732-0194	Spring Pin
41. 710-3097 Carriage Bolt 3/8-16 x 1.0 85. 736-0371 Flat Washer 42. 712-3017 Hex Nut, 3/8-16 86. 712-3022 Hex Lock Nut, 1/2-13	39.	714-0470	Cotter Pin	83.	781-0789	
42. 712-3017 Hex Nut, 3/8-16 86. 712-3022 Hex Lock Nut, 1/2-13	40.	781-1027	Light Bracket - RH	84.	736-0351	Flat Washer.760 ID x.500 OD
	41.	710-3097	Carriage Bolt 3/8-16 x 1.0	85.	736-0371	Flat Washer
43. 781-0682 Log Tray 87. 712-3008 Jam Nut, 3/8-16	42.	712-3017	Hex Nut, 3/8-16	86.	712-3022	Hex Lock Nut, 1/2-13
	43.	781-0682	Log Tray	87.	712-3008	Jam Nut, 3/8-16

MANUFACTURER'S LIMITED WARRANTY FOR:



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

"Troy-Bilt" 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 Troy-Bilt 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 Troy-Bilt LLC at P.O. Box 361131, Cleveland, Ohio 44136-0019, or call 1-800-520-5520 or 1-330-558-7220, or log on to our Web site at www.troybilt.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. Troy-Bilt does not extend any warranty for products sold or exported outside of the United States, its possessions and territories, except those sold through Troy-Bilt's authorized channels of export distribution.
- f. Replacement parts that are not genuine Troy-Bilt 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 Troy-Bilt. 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. Troy-Bilt 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.

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