37-TON HORIZONTAL/VERTICAL GAS LOG SPLITTER

Pow'R'kraft®

Use Only Ethanol Free Fuel or E10 Premium

Before starting the engine, check engine oil level and ensure the engine is filled as described in the Engine

Save This Manual for Future Reference

Use 10wt AW32,ASLE H-150, or ISO32 oil

OPERATION & PARTS MANUAL

FOR YOUR SAFETY!

Please read these instructions carefully before using!

Check all fluid levels before each use!

GREASE ALL FITTINGS BEFORE OPERATING!

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BETSTCO

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Pow'R'kraft®

RUGGED LABOR SAVING EUIPMENT SINCE 1995

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Pow'R'kraft®

ITEM NUMBER: PK-LS37THVF

SERIAL NUMBER: _____

Instructions for Assembly, Testing, Operation, Servicing, & Storage

37-Ton Log Splitters: Outdoor hydraulic powered machine that splits wood logs.

⚠ WARNING

READ and UNDERSTAND this manual completely before using log splitter.

All operators of this equipment must read and completely understand all safety information, operating instructions, maintenance and storage instructions. Failure to properly operate and maintain the log splitter could result in serious injury to the operator and bystanders from moving parts that can crush or cut, flying objects, burns, fire or explosion, escaping high pressure hydraulic fluid, or carbon monoxide poisoning in particular, be aware of the following hazards.

Crush and Cut Hazards

Moving parts can crush and cut hands and fingers. Keep hands clear of endplate, wedge, logs, and log strippers while splitting.

High Pressure Hydraulic Fluid Hazards

High fluid pressures and temperatures are developed in hydraulic log splitters. Hydraulic fluid escaping through even a pin-size hole opening can puncture skin and cause severe blood poisoning. Inspect hydraulic system regularly for possible leaks. Never check for leaks with your hand while the system is pressurized. Seek medical attention immediately if injured by escaping fluid.

Fire Hazards

- If your log splitter is intended for use near an ignitable forest, brush, or grassy covered land, the engine exhaust should be equipped with a spark arrestor. See the "Specifications" section of this manual to determine if your splitter already has a spark arrestor. If not equipped, it should not be used.
- Keep a fire extinguisher with you that is rated for ordinary combustibles and flammable liquids.

STOP!

ADD OIL TO ENGINE BEFORE USING: Engine is shipped without oil. DO NOT start log splitter without first adding oil.
ADD HYDRAULIC OIL: Your log splitter was shipped without hydraulic oil. Refer to Periodic Maintenance section of this manual for instructions on filling the hydraulic reservoir
INSPECT COMPONENTS: Closely inspect to make sure no components are missing or damaged.
See Initial Unpacking & Set-up for instructions and for whom to contact to report missing or damaged parts.

Any Questions, Comments, Problems or Parts Orders

E-mail:support@PowRkraft.com or Call PowRkraft Product Support 1-877-876-7895

About Your Log Splitter

Thank you for purchasing your PowRkraft log splitter!

About Your Log Splitter:

This log splitter is a machine designed to split wood logs using a hydraulically powered moving wedge. The log splitter's gasoline engine is used to pressurize the hydraulic system.

This log splitter is designed to split logs *lengthwise with the grain only.*

Your splitter can be used in either a vertical or horizontal splitting position:

- When the splitter is set up to operate in the horizontal splitting position, a log is placed on the horizontal beam and the wedge moves horizontally into the end of the log to split it.
- When the splitter is set up to operate in the vertical splitting position, the log is placed on the endplate, upright on its end, and the wedge moves down into the top of the log to split it.

The horizontal splitting position is used for lighter logs that can be easily loaded onto the beam. The vertical splitting position is used for heavier logs that are difficult to load onto the beam.

The technical specifications for your log splitter are provided in the Specifications section of this manual.

⚠ WARNING

This log splitter uses a high-pressure hydraulic system to generate a very strong splitting force.

Read the manual completely before using the machine to understand how to safely operate and maintain it.

Follow all safety precautions presented throughout this manual. A summary of important safety information can be found at the end of this manual.

Contact PowRkraft Product Support at 1-877-876-7895 for any questions about the appropriate use of this log splitter and/or optional accessories.

Warranty Registration:

Please fill out and submit the warranty registration card so that we have your contact information for any future product literature or replacement parts you may need.

Attention: All Rental Companies and Private Owners who loan this equipment to others!

All persons to whom you rent/loan the log splitter must have access to and read this manual. Keep this owner's manual with the splitter at all times and advise all persons who will operate the machine to read it. You must provide instruction on how to safely operate the splitter and remain available to answer any questions a renter/borrower might have.

Safety Precautions for Gas Engines

BASIC SAFETY INFORMATION

EXHAUST FUMES ARE DANGEROUS
•Never operate the engine in a closed area or it may cause unconsciensness and death within a short time. Operate in a well ventilated area.

FUEL IS HIGHLY FLAMMABLE AND POISONOUS
•Always turn off the engine when refueling.
•Never refuel while smoking or in the vicinity of an open flame.
•When operating or transporting engine and log splitter, be sure to keep it upright. If it tilts, fuel may leak from the carburetor or fuel tank.

ENGINE AND MUFFLER MAY BE HOT
•Place the engine/log splitter in an appropriate location, away from children and pedestrians.
•Avoid placing any flammable materials near the exhaust outlet during operation.
•Keep a 4ft. clearance from buildings or other equipment around the engine/log splitter to prevent overheating.

WARNING! The engine muffler will be very hot after use, avoid touching the engine or muffler while they are still hot.

ELECTRIC SHOCK PREVENTION
•Never operate in rain or snow.
•Never touch the engine with wet hands or electric shock could occur.

FUEL
Make sure there is sufficient fuel in the tank.

SPECIFIC SAFETY INFORMATION

TAMPERING WITH FACTORY SET ENGINE SPEED SETTINGS.

Engine speed has been factory set to provide safe operation. Tampering with the engine speed adjustment could result in overheating and could cause a fire. Never attempt to "speed-up" the engine to obtain more performance.

ATTEMPTING TO FILL THE FUEL TANK WHILE THE ENGINE IS RUNNING.

Gasoline and gasoline vapors can become ignited by coming in contact with hot components such as the muffler, engine exhaust gases, or from an electrical spark.

Turn engine off and allow it to cool before adding fuel to the tank. Equip area of operation with a fire extinguisher certified to handle gasoline or fuel fires.

SPARKS, FIRE, HOT OBJECTS

Cigarettes, sparks, fires, or other hot objects can cause gasoline or gasoline vapors to ignite.
Add fuel to tank in well ventilated area. Make sure there are no sources of ignition near the engine.

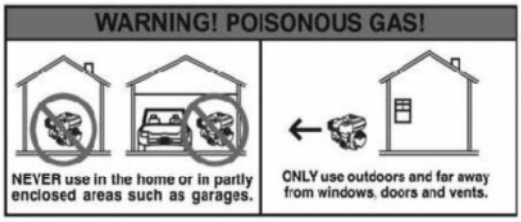
INADEQUATE VENTILATION

Materials placed against or near the engine or operating in areas where the temperature exceeds 40° C ambient (such as storage rooms or garages) can interfere with its proper ventilation features causing overheating and possible ignition of the materials or buildings.
Operate engine in a clean, dry, well ventilated area a minimum of four feet from any building, object or wall. DO NOT OPERATE UNIT INDOORS OR IN ANY CONFINED AREA.

RISK OF BREATHING - INHALATION HAZARD

Operate engine in clean, dry, well ventilated area. Never operate unit in enclosed areas such as garages, basements, storage, sheds, or in any location occupied by humans or animals.

Keep children, pets and others away from area of operating unit. Breathing exhaust fumes will cause serious injury or death. **Gasoline engines produce toxic carbon monoxide exhaust fumes.**



WHEN REFUELING

STOP ENGINE!
NO SMOKING!
DO NOT SPILL GASOLINE!

KEEP FLAMMABLE MATERIALS AWAY. RISK OF FIRE.

GASOLINE ENGINES PRODUCE TOXIC CARBON MONOXIDE EXHAUST FUMES.

Safety Precautions for Log Splitter

1) All operators of this equipment must read and completely understand all safety information, operating instructions, maintenance and storage instructions. Failure to properly operate and maintain the log splitter could result in serious injury to the operator and bystanders from moving parts that can crush or cut, flying objects, burns, fire or explosion, escaping high pressure hydraulic fluid, or carbon monoxide poisoning in particular, be aware of the following hazards.

-Crush and Cut Hazards

Moving parts can crush and cut hands and fingers. Keep hands clear of endplate, wedge, logs, and log strippers while splitting.

-High Pressure Hydraulic Fluid Hazards

High fluid pressures and temperatures are developed in hydraulic log splitters. Hydraulic fluid escaping through even a pin-size hole opening can puncture skin and cause severe blood poisoning. Inspect hydraulic system regularly for possible leaks. Never check for leaks with your hand while the system is pressurized. Seek medical attention immediately if injured by escaping fluid.

-Fire Hazards

Keep a fire extinguisher with you that is rated for ordinary combustibles and flammable liquids.

2) NEVER remove the hydraulic oil fill cap when the engine is running or hot. Hot oil can escape causing severe burns. Allow log splitter to cool completely before removing hydraulic oil fill cap.
3) If a part needs replacement, only use parts that meet the manufacturer's specifications. Replacement parts that do not meet specifications may result in a safety hazard or poor operation of the log splitter.
4) Intended use. Log splitters should only be used for splitting wood logs, lengthwise with the grain. Do not use for other purposes as unforeseen hazards may result.
5) Modifications. Never modify or alter the log splitter in any way. Modifications can create serious safety hazards and will void the warranty.
6) Engine speed. The maximum engine speed is preset at a safe limit. Never attempt to modify the engine speed setting to run at a higher speed.
7) Fuel/exhaust system. NEVER modify or add to the exhaust system, fuel tanks, or fuel lines. Fire can result.
8) Pressure setting. NEVER increase the pressure setting of the pump or control valve.
9) Daylight only. Only use the log splitter in daylight so you can see what you are doing.
10) Adjusting / repairing. Always make sure the engine is off before cleaning, repairing or adjusting the splitter. Move control lever back and forth to relieve system pressure before changing or adjusting hydraulic system components such as hoses, tubing, fittings or other components.
11) Wear the following protective clothing and safety gear:

-Eye protection. Always wear safety glasses or goggles when operating. Pieces of log may fly out and serious eye injury can occur.

-Boots. Falling logs can crush feet. Always wear safety shoes or heavy boots when operating or helping to load logs.

-Gloves. Wear snug fitting gloves without drawstrings or loose cuffs.

-Hearing protection. The use of earplugs or other hearing protection device is recommended.

-No Loose / dangling clothing. Loose or dangling apparel can become entangled in moving parts. Never wear jewelry or loose-fitting clothing.

12) Block the wheels to prevent unintended movement of the log splitter. Check;

-The outrigger legs are both locked in the DOWN position.
-The wheels are blocked.

13) Never place your hands or any part of your body between a log and any part of the log splitter.
14) NOTE for vertical position loading: Place the log on the endplate and turn it until it leans against the beam and is stable. If the log is too big or oddly shaped, stabilize the log with wooden shims between the log and endplate or ground. DO NOT use your leg or knee to stabilize the log. NEVER stabilize the log by placing your hand on top of the log.
15) Wedge moving. NEVER load or unload logs while the wedge is moving.
16) Straddling / reaching across. Never straddle, reach across, or step over the beam while the engine is running and the log splitter is in the horizontal position. You could trip, actuate the controls, and get seriously injured.
17) Unsplit log pile. Do not pile logs to be split in a place that will make you reach across the log splitter in order to load them.
18) Square log ends. Logs that are not cut square can slide out while splitting and become a safety hazard or cause excessive force to log splitter components. Use a chainsaw to cut logs square on each end before attempting to split them.
19) Single log. Never attempt to split more than one log at a time. Pieces of log can unexpectedly be thrown from the machine causing serious injury.
20) Split along grain. Do not use the log splitter to split logs across the grain. Doing so will damage the log splitter and could also cause pieces of log to be thrown, injuring the operator or bystanders.
21) Forked logs. Splitting forked logs can cause damage the log splitter. Trim the forked log with a chain saw prior to splitting the log.
22) Changing splitting position. Do not change splitting positions (horizontal/vertical) with the engine running. You may contact the muffler and receive serious burns. Be careful to avoid contact with hot muffler even after the engine is turned off.
23) Change hydraulic oil annually or every 100 hours. Relieve hydraulic system pressure by moving the control lever back and forth several times.
24) General safety while moving;

-Horizontal position. Make sure the log splitter is secured in the horizontal position before moving the log splitter. DO NOT move the log splitter when it is in the vertical position because it will be unstable and could tip.

-Hills. Do not move the log splitter up or down hills by hand – use a towing vehicle.

-Engine off. Never move the log splitter with engine is running.

-No riding. Never allow anyone to sit or ride on the log splitter.

-No cargo. Never transport cargo or wood on the log splitter.

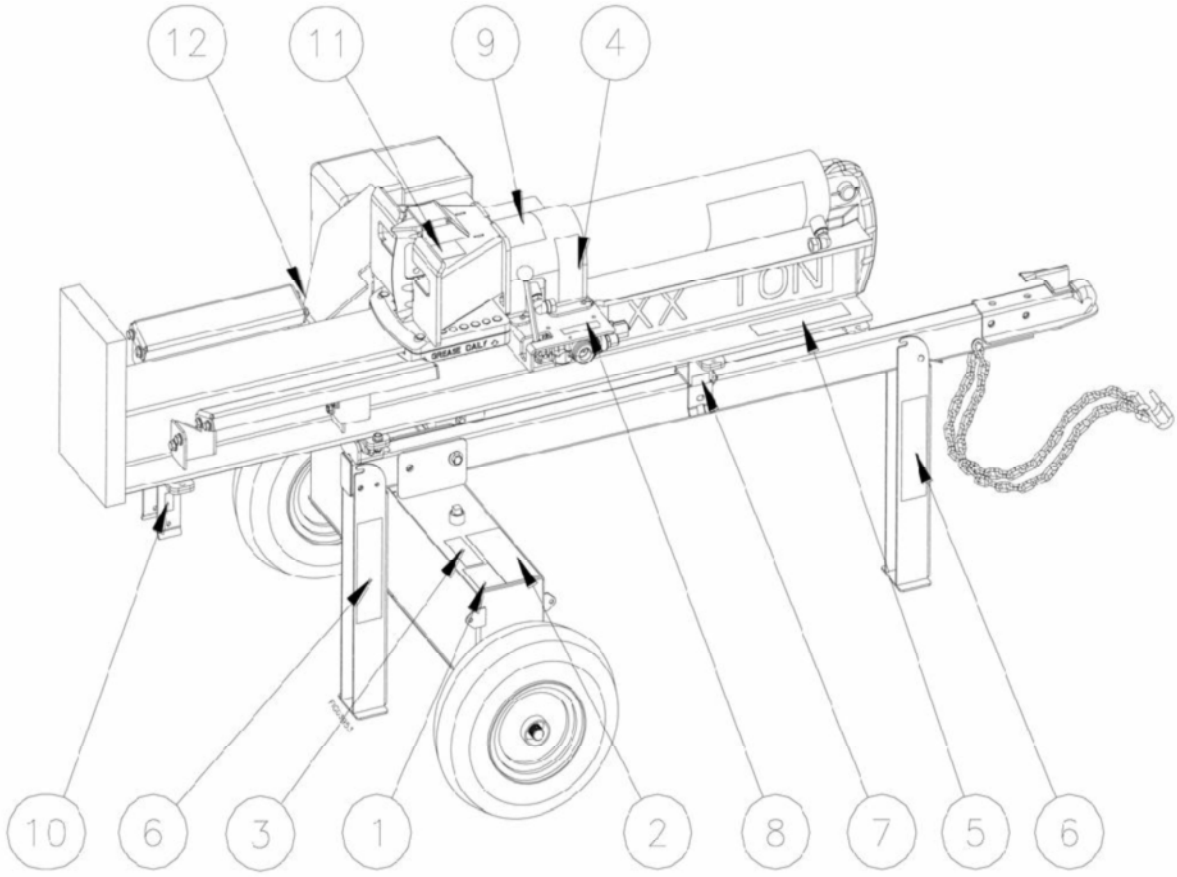
25) Safety during towing;

-Read instructions. Review towing safety instructions in your towing vehicle manual.

-Securely attached. Be sure the log splitter is securely attached to the towing vehicle before towing.

26) Never try to split logs larger than the rated capacity. This could be dangerous and may damage the machine.

Safety Label Locations



Reference #	Part #	Description
1	39259	Warning Decal
2	777887	Splitter Operating Instruction Decal
3	777890	Fire Hazard Warning Decal
4	777891	Hydraulic Fluid Warning Decal
5	777892	Moving/Towing Decal
6	778593	Outrigger Leg Decal
7	778597	Horizontal Lock Decal
8	778609	Control Decal
9	778610	Log Splitter Warning Decal
10	778714	Vertical Lock Decal
11	778717	Log Stripper Decal
12	786707	On/off Switch Decal

Always make sure safety labels are in good condition. If a safety label is missing or not legible, order new labels or unsafe operation could result.

Safety Label Locations

1

⚠WARNING

POISONOUS GAS

This product's use gives off carbon monoxide, an odorless gas that can kill you.

- ONLY use outdoors and away from air intakes.
- NEVER use inside homes, garages, or sheds. EVEN IF you run a fan or open doors and windows.

See product manual for more details.

Northern Tool + Equipment Co. 1-877-876-7895 PN 3929

9

⚠WARNING

Moving parts can crush and cut. Pieces can fly out while splitting. Follow safety rules for operating the log splitter or serious injury could result.

- READ the Owner's Manual completely before operating.
- Only one person should operate the log splitter. If an assistant is helping to load logs, the operator should not actuate controls until the assistant is at least 10 ft away.
- Stay in the designated OPERATOR POSITION while actuating the controls.
- Split wood in direction of the grain only.
- Hold bark side of logs when loading.
- Keep hands away from wedge, endplate/ram, and partly split logs.
- Never leave log splitter unattended during operation.
- Stay off slopes and slippery surfaces.

See additional safety rules in the Owner's Manual.

Northern Tool + Equipment Co. 1-877-876- PN 778610

4

⚠WARNING

ESCAPING HIGH PRESSURE HYDRAULIC FLUID HAZARD

High fluid pressures and temperatures are developed in the hydraulic system. Hydraulic fluid escaping through even a pin-size hole opening can puncture skin and cause blood poisoning.

- Inspect hydraulic system regularly for leaks.
- Never check for leaks with your hand while system is pressurized.
- Seek medical attention immediately if injured by escaping fluid.

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11

LOG STRIPPER

RETRACT WEDGE TO REMOVE STUCK WOOD

⚠WARNING

PINCH POINT
Keep hands clear of wedge and log stipper

Northern Tool & Equipment Co. 1-877-876-

2

OPERATING INSTRUCTIONS

GENERAL

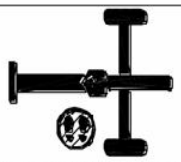
- Stay in the OPERATOR POSITION while actuating controls.
- Never actuate controls until the helper is 10ft away from log splitter, including any helpers assisting to load logs.
- Wear eye protection, hearing protection, snug fitting gloves, and safety shoes or heavy boots. No loose or dangling apparel.

SETTING UP

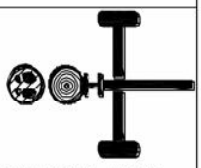
- Place log splitter on dry, level ground.
- Secure splitter for unintended movement.
- Place splitter in horizontal or vertical position.
- Start engine

SPLITTING LOG

- Position log on beam, against endplate.
- Move split control to extend wedge and split log.
- Release split control to stop wedge.
- Move split control to return wedge.
- Remove split wood from work area.



Operator Position - horizontal



Operator Position - vertical

12

* 1109 & 1114 only

5

MOVING/TOWING INSTRUCTIONS

Towing log splitter

- Latch coupler securely to class 2 or higher hitch with 2" ball.
- Lock tow bar leg and support leg (if equipped) in the UP position.
- Attach safety chains to tow vehicle.
- Close fuel shut-off valve on engine (if equipped)
- Do not tow faster than 45 mph. Higher speeds can cause loss of control.
- Check local, state, and federal requirements before towing on public roads.

8

SPLIT CONTROL LEVER OPERATION

Split Log Neutral Return

6

OUTRIGGER LEG

LOCK BOTH OUTRIGGER LEGS IN THE DOWN POSITION BEFORE SPLITTING

3

⚠WARNING

FIRE HAZARD

Hot exhaust can ignite dry brush, trees, or grass.

- Equip engine with a spark arrestor if you will be using near ignitable forest, brush or grassy covered land.
- Keep a fire extinguisher on hand that is rated for ordinary combustibles & flammable liquids.

7

HORIZONTAL LOCK

PN 778597

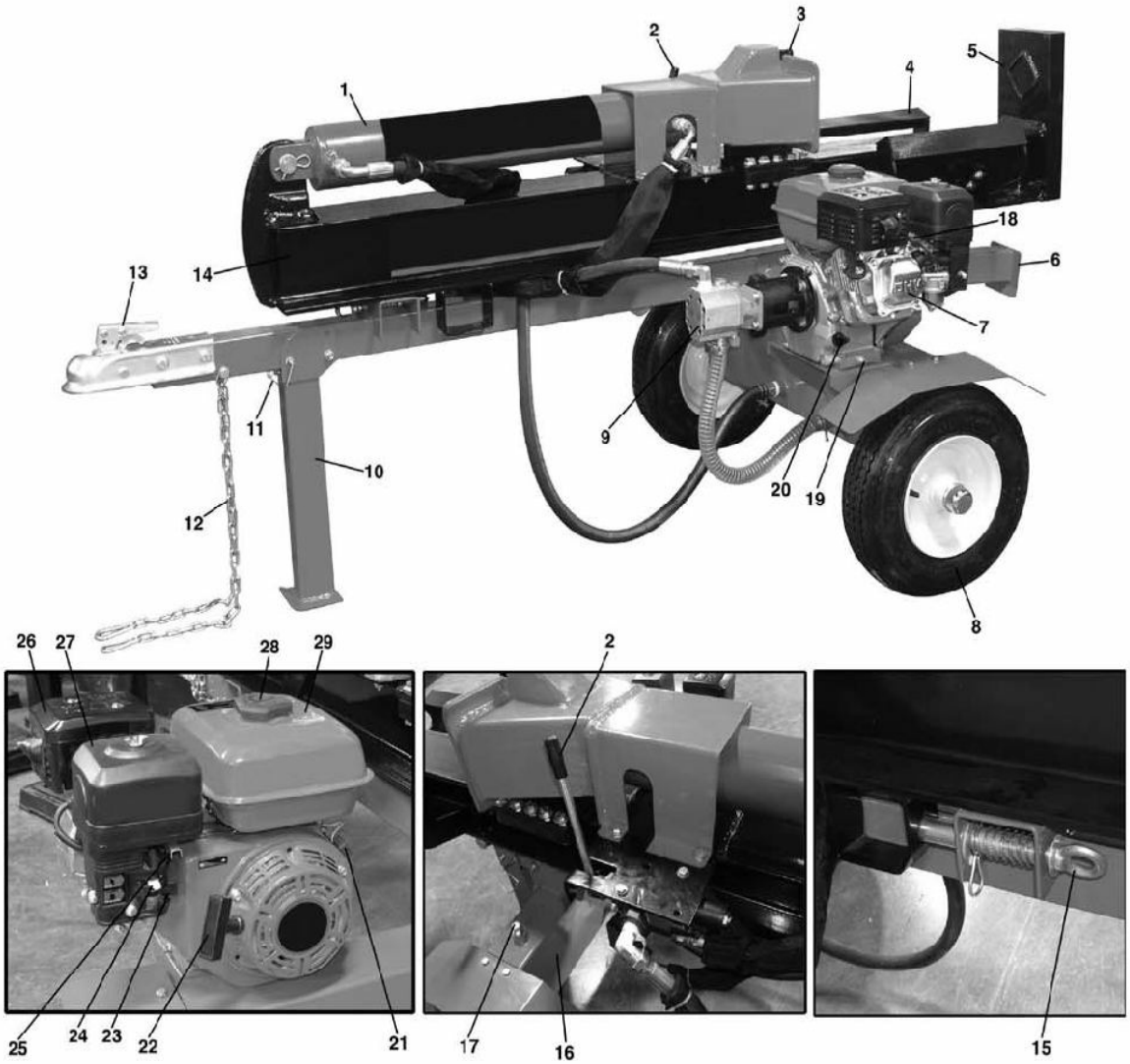
10

VERTICAL LOCK

PN 778714

FIGD3954

Getting to Know Your Log Splitter



1. **Cylinder.** Pushes wedge to split wood.
2. **Control lever.** Forward/neutral/return positions.
3. **Wedge.** 4-way wedge splits wood into 4.
4. **Log craddle.** Prevent logs from falling off the beam.
5. **Endplate.**
6. **Rear outrigger leg.**
7. **Gas engine assembly.**
8. **DOT Pneumatic wheel.** Max speed of 70 km/h.
9. **Hydraulic pump.**
10. **Front outrigger leg.**
11. **Outrigger leg lock pin.**
12. **Towing safety chains.**
13. **2" Ball coupler.**
14. **Beam.**
15. **Beam horizontal position lock pin.**
16. **Hydraulic fluid axle/tank.**
17. **Dipstick for hydraulic fluid tank.**
18. **Spark plug/cover.** The spark plug must be check periodically for carbon deposits and/or discoloration, see maintenance section.
19. **Oil drain bolt.**
20. **Oil gauge dipstick.** Check the oil level using this oil gauge dipstick.
21. **Power ON/OFF switch.** This switch must be switched to "ON" before pulling recoil starter.
22. **Recoil starter.** Starts the engine.
23. **Fuel Shut-off Valve.** Regulates the flow of fuel to the engine. The fuel shut-off valve must be fully opened before starting the engine.
24. **Carburetor throttle lever.** Once the engine is started, move the trottle lever to increase or decrease engine speed.
25. **Choke lever.** Once the engine is started, it is necessary to gradually move the choke lever to the "OPEN" position, see instructions futher in this manual. On warm starts, choke is not needed.
26. **Muffler.** Be careful, the muffler can get very hot during operation, keep hands away.
27. **Air cleaner element/cover.** Periodically the air cleaner filter must be checked and maintained, see maintenance section.
28. **Fuel cap.** Make sure the fuel cap is always screwed on tightly.
29. **Fuel tank.** Unleaded gasoline only!

Log Splitter Assembly

ASSEMBLY

Installing wheels to axle/tank

1) Slide wheel (A) Fig.1 onto axle (C) with valve stem (B) facing out.

2) Slide outer bearing (D) onto axle (C) (outer bearing may be shipped loose in parts bag or loose inside wheel). Outer bearing taper points towards log splitter.

3) Slide wheel washer (E) onto axle.

4) Thread axle nut (F) onto Axle (hand tighten only). Back axle nut off 1/4 turn. Make sure wheel spins freely.

5) Insert cotter pin (G) through hole in axle (C) and bend it so axle nut (F) can't come off. Make sure wheel spins freely.

6) Tap dust cap (H) onto wheel with a soft faced mallet. Repeat for the other wheel.

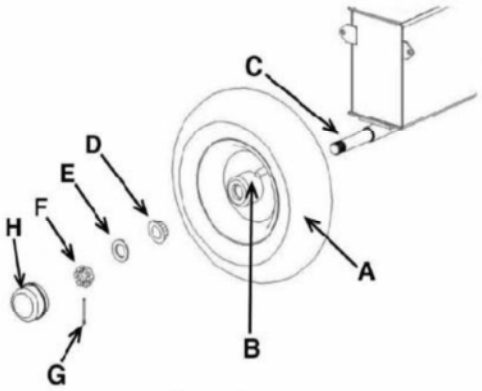


Figure 1

Installing towbar to axle/tank

1) Connect towbar (A) Fig.2 to axle/tank (B) using 2 hex. bolts and 2 nylon hex. nuts (C) (already in place).

2) Tighten bolts/nylon hex. nuts to 90 ft-lbs with a torque wrench.

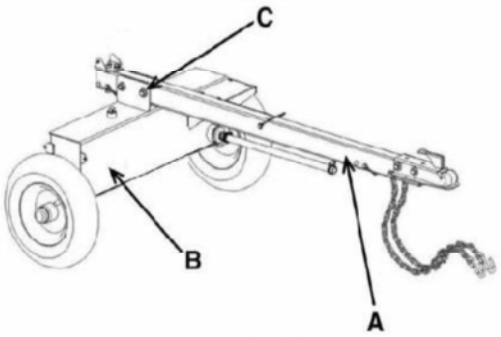


Figure 2

Installing outrigger legs to towbar

1) Connect an outrigger leg (A) Fig.3 to the front of towbar (B) using a hex. bolt and a nylon hex. nut (C) (already in place).

2) Use wrench to tighten nylon hex. nut until snug then back off 1/2 turn.

3) Insert locking pin (D) to lock outrigger leg in vertical position. The next step requires the outrigger leg to be locked in vertical position as shown (Fig.3).

4) Connect the remaining outrigger leg (A) Fig.4 to the back of towbar (B) using a hex. bolt and a nylon hex. nut (C) (already in place).

5) Use wrench to tighten nylon hex. nut until snug then back off 1/2 turn.

6) Insert locking pin (D) to lock outrigger leg in vertical position. The next step requires the outrigger leg to be locked in vertical position as shown (Fig.4).

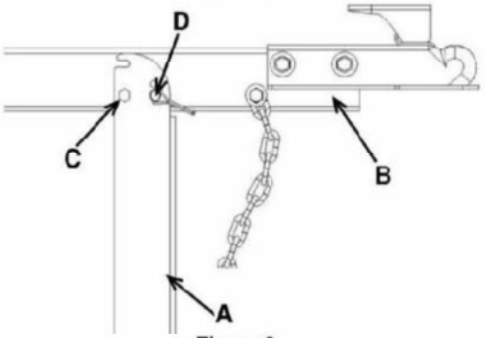


Figure 3

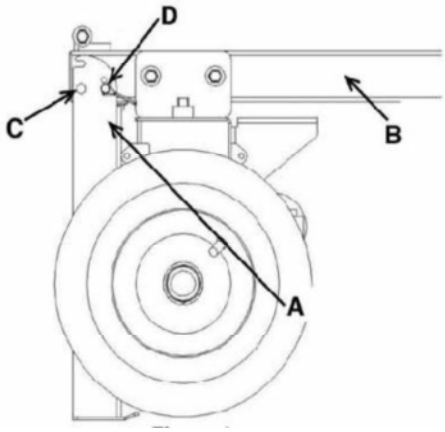


Figure 4

Log Splitter Assembly

ASSEMBLY

Installing beam to towbar

1) Remove beam (A) Fig.5 from shipping pallet. Get someone to help you or use lifting equipment.

2) Tip beam up onto endplate (B) as shown in Fig.5. Make sure to obtain a helper to hold the top of the beam during the remainder of this step. The beam is very heavy and dangerous if it tips over.

3) Connect beam to the towbar (C) using the beam fixing shaft and cotter pin (D). Insert cotter pin through hole in beam fixing shaft and bend it so it can't come off.

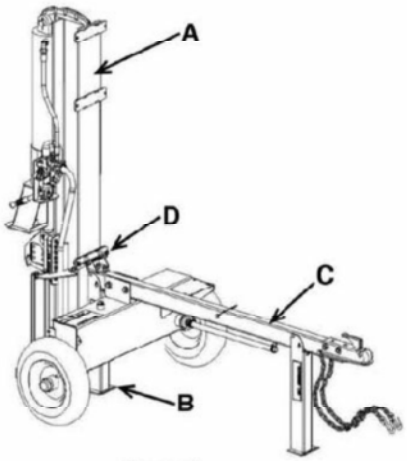


Figure 5

4) Pivot and lower beam (A) Fig.5 to its horizontal position. Fix beam into position using the horizontal beam spring lock bolt (A) Fig.6.

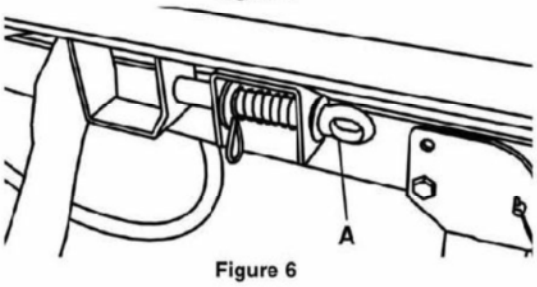


Figure 6

Installing gas engine/pump assembly to the axle/tank

1) Position the gas engine/pump assembly (A) Fig.7 onto the axle/tank plate (B) and secure it into place using 4 hex. bolts and hex. nuts (C). (The beam is not shown for clarity purposes).

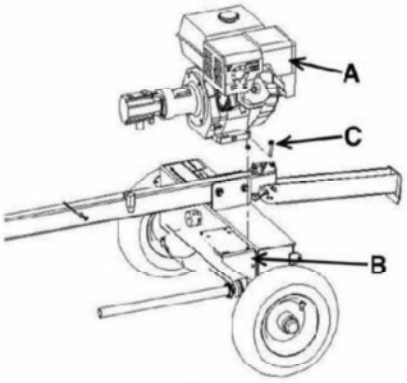


Figure 7

Installing suction hose from axle/tank to pump

1) Slightly loosen the hose clamps (A) Fig.8 at both ends of the suction hose (B) (transparent hose).

2) Remove the shipping plug from the pump then slide suction hose onto the bottom fitting (C) of the pump, secure hose by tightening the hose clamp.

3) Slide suction hose onto the axle/tank fitting (D), secure hose by tightening the hose clamp.

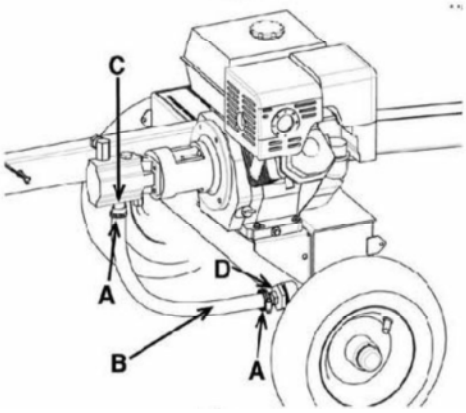


Figure 8

Log Splitter Assembly &Initial Set-up before Operation

ASSEMBLY

Installing control valve, fittings and hoses

1) First install the control valve/control lever assembly (A) Fig.9 to the beam mounting plate (B) using 2 hex. bolts.

2) Install the fitting (C) Fig.9 to the side port of the control valve.

3) Install the fitting (D) Fig.9 to the port underneath the control valve.

4) Install the fitting (E) Fig.9 to the lowest port underneath the control valve.

5) Thread the hose (#1) Fig.9 to the fitting (C) Fig.9 and thread the other end of hose (#1) Fig.10 to the fitting (A) Fig.10 on top of the pump.

6) Thread the hose (#2) to the fitting (E) Fig.9 and thread the other end of hose (#2) to the fitting (B) Fig.10 at the front of the cylinder.

7) Thread the hose (#3) Fig.9 (the shortest hose with fittings) to the fitting (D) Fig.9 and thread the other end of hose (#3) Fig.10 to the fitting (C) Fig.10 at the rear of the cylinder.

8) Slide the return hose (#4) Fig.9 & Fig.10 onto the return valve fitting (D) Fig.10 on the axle/tank and slide the other end of hose (#4) Fig.9 onto the return valve fitting at the rear of the control valve. Secure both ends of the hose by tightening the hose clamps.

Note: Secure all hose threaded couplings to the control valve to 44-45 ft-lbs using a torque wrench. Tighten all other threaded couplings to 47 ft-lbs using a torque wrench.

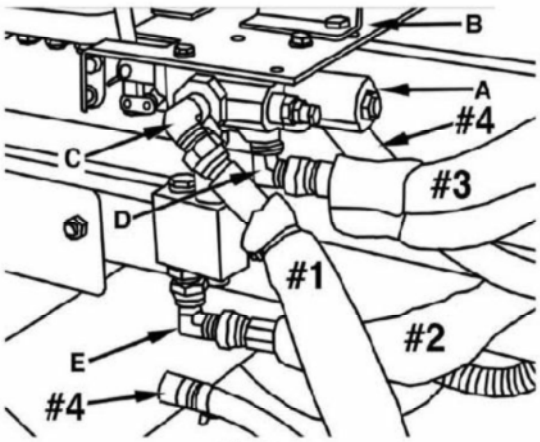


Figure 9

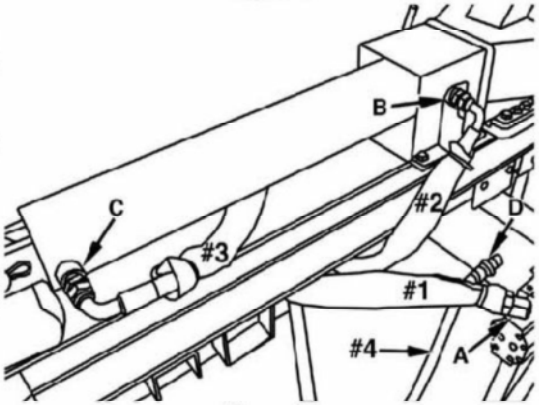


Figure 10

INITIAL SETUP BEFORE OPERATION

ENGINE OIL LEVEL

WARNING! This engine has been shipped from the factory without oil or very little oil in the crankcase. Operating your engine without the correct amount of oil can damage it. Oil crankcase capacity: 0.6 litres.

Always check the oil level before starting the engine, make sure the engine is on a level surface. To check oil level;

1) Turn the oil gauge dipstick (A) Fig.11 counterclockwise, remove it and clean it with a clean cloth.

2) Fully reinsert the oil gauge dipstick and pull it out to check the oil level.

3) If the oil level is halfway up the dipstick or below, refill with SAE 10W30 oil through the dipstick hole until the oil level reaches 3/4 up the dipstick or until it reaches the bottom lip of the dipstick hole as shown in illustration Fig.12.

4) Reposition the oil gauge dipstick and tighten it by turning clockwise.

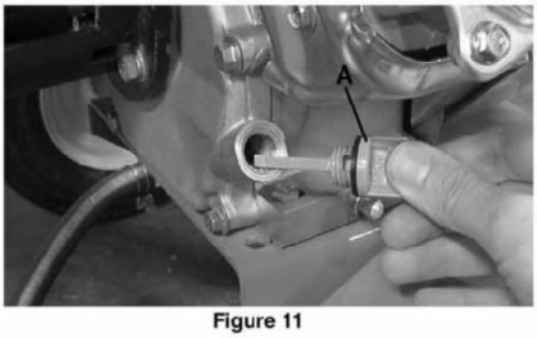


Figure 11

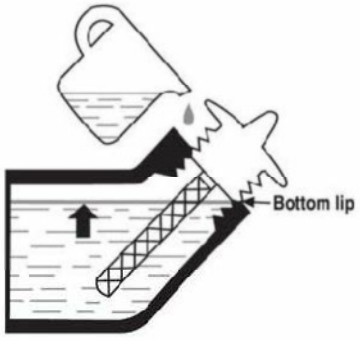


Figure 12

Initial Set-up before Operation

INITIAL SETUP BEFORE OPERATION

ENGINE FUEL LEVEL

WARNING! Make sure there is enough fuel in the fuel tank before operating.

1) If it is necessary to add fuel, first make sure the engine switch is OFF, then open the fuel cap (A) Fig.13 by turning it counterclockwise.

2) When refueling, keep in mind all safety precautions and make sure to add enough fuel based on usage. Use clean unleaded gasoline with a minimum of 87 octane. Do not mix oil with gasoline. Fuel tank capacity: 3,6 litres.

Figure 13

ENGINE AIR CLEANER FILTERS

The air cleaner filters should be checked before every start-up and after prolonged storage, the following steps should be done when checking air cleaner filters;

1) Remove the wing nut (B) Fig.14, lift to remove the air cleaner cover (A) as shown.

2) Remove the wing nut and washer (D) Fig.14, lift and remove air filters (C) Fig.14 from its base. Remove the foam filter (A) Fig.15 from the paper filter (B), wash foam filter in kerosene, squeeze kerosene out, soak foam filter in engine oil and squeeze engine oil out.

3) In a well ventilated area, use pressurized air to blow dust out of the paper filter (B) from the side opposite the filter's normal air flow (clean side).

4) Replace filters and replace the air cleaner filter cover. Secure all parts with wing nuts.

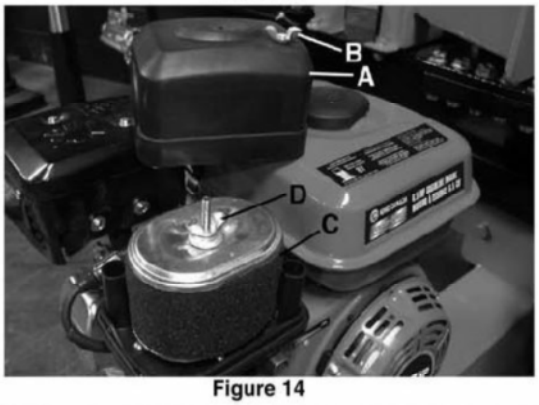


Figure 14

FILL LOG SPLITTER (AXLE/TANK) WITH HYDRAULIC FLUID

WARNING: High fluid pressures and temperatures are developed in hydraulic log splitters. Hydraulic fluid escaping through a pin hole sized opening can burn or puncture skin, resulting in wounds that could cause blood poisoning, infection, disability, gangrene, amputation, or death. Therefore, the following instructions should be heeded at all times when inspecting or servicing the hydraulic components of the log splitter.
-NEVER check for leaks with your hand. Leaks can be located by holding a piece of cardboard or wood (at least two feet long) with your hand at one end and passing the other end over the suspected area (wear eye protection). Look for discoloration of the cardboard or wood.
-NEVER adjust the pressure of the pump or valve.
-If injured by escaping fluid, no matter how small the wound is, see a doctor at once. A typical injection injury may be a small wound that does not look serious. However, severe infection or reaction can result if proper medical treatment is not administered immediately by a doctor who is familiar with injection injuries.

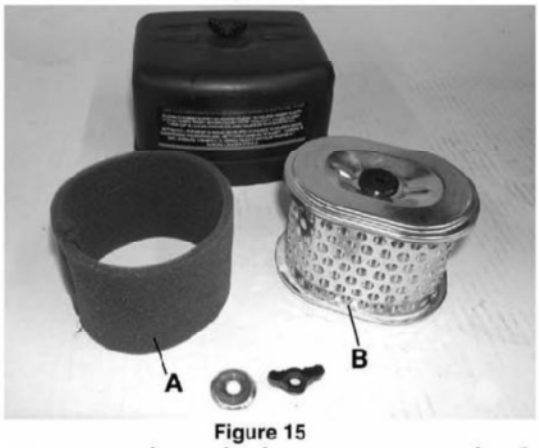


Figure 15

1) Remove hydraulic oil dipstick (A) Fig.16.

2) Approximate hydraulic oil capacity: 6 Gallons.

3) Fill axle/tank with ISO 32 hydraulic oil. Use a funnel. Fill until the oil level reaches approximately 1" from the top of the oil dipstick.

4) Start engine (see starting engine section for instructions) and use the control valve lever (see operation section for instructions) to extend and retract wedge 5 (five) times to remove air from the high pressure lines. This step can also be done by manually cranking the engine by pulling the recoil starter handle several times.

5) With wedge retracted, check oil level again, fill the axle/tank until the oil level reaches approximately 1" from the top of the oil dipstick. Reinstall oil dipstick.

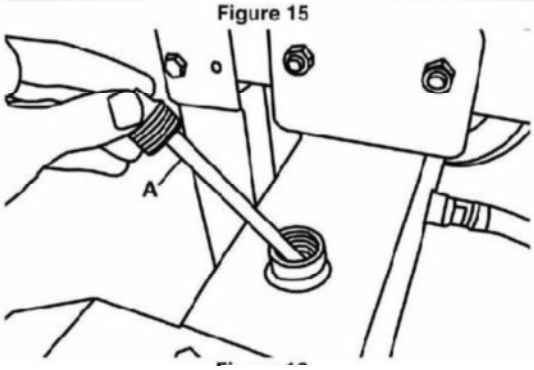


Figure 16

Initial Set-up before Operation &Splitting Position

INITIAL SETUP BEFORE OPERATION & BEFORE EACH USE

GREASE KEEPERS

1) Pump grease into grease zerks (B) Fig.17 found under each keeper (A). This will help prevent wear between the keepers and beam.

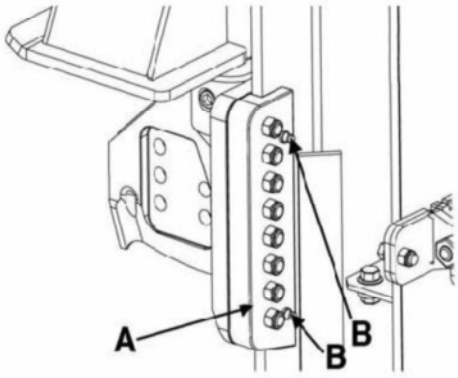


Figure 17

SELECT AN APPROPRIATE LOCATION FOR OPERATING THE LOG SPLITTER

Requirements:

1) Dry-level surface with good footing. Stay clear of areas with mud, ice, tall grass, weeds, brush, or snow.

2) Outdoors, away from air intakes. **WARNING:** A running engine gives off carbon monoxide, a poisonous gas that can kill you. You CANNOT smell it, see it, or taste it. ONLY run log splitter OUTDOORS and away from air intakes. NEVER run log splitter inside homes, garages, sheds, or other buildings or semi-enclosed spaces. These spaces can trap poisonous gases, EVEN if you run a fan or open windows. If you start to feel sick, dizzy, or weak while using the log splitter, shut off the engine and get to fresh air RIGHT AWAY. See a doctor. You may have carbon monoxide poisoning.

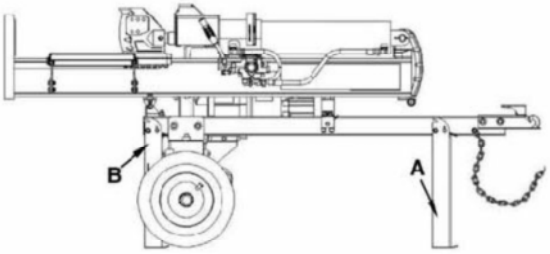


Figure 18

Fire precautions. Take the following precautions against fire:
- Keep a fire extinguisher available (classified for both ordinary combustibles & flammable liquids) as a precautionary measure when operating the log splitter in dry areas.

3) Position splitter 7 feet from any combustibles or flammable liquids. Position muffler at least 7 feet from combustible objects during operation. Hot exhaust fumes from engine could cause fire. Also, hydraulic oil leaking or spraying on hot engine can ignite.

4) Lock both outrigger legs (A) Fig.18 in the DOWN position before operating.

5) Block the wheels to prevent unintended movement of the log splitter.

SET LOG SPLITTER INTO EITHER THE HORIZONTAL OR VERTICAL SPLITTING POSITION

The HORIZONTAL splitting position is used for lighter logs that can be easily loaded onto the beam. The VERTICAL splitting position is used for light logs as well as heavy logs that are difficult to load onto the beam. The use of the vertical splitting position can greatly reduce the need to lift logs onto the splitter.

WARNING: NEVER change splitting positions with the engine running. You may contact the muffler and receive serious burns.

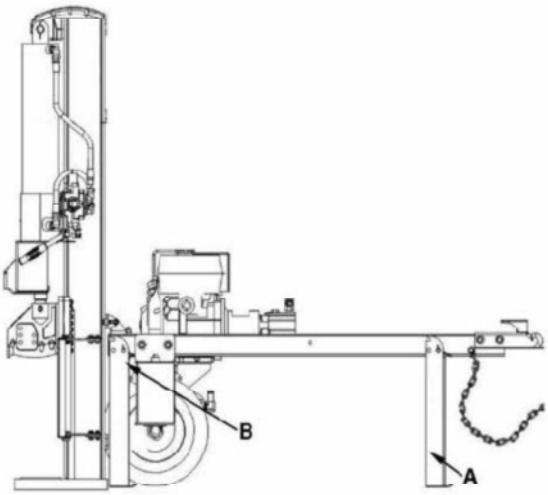


Figure 19

Horizontal position
1) Make sure beam is locked securely in the horizontal position by checking the horizontal lock (A) Fig.6. The rear and front outrigger legs (A & B) Fig.18 must be locked in horizontal splitting position.

Vertical position
1) The rear and front outrigger legs (A & B) Fig.19 must be locked in the down position while in vertical splitting position.

2) Pull out horizontal lock catch pin (A) Fig.6, lift beam until it rotates into vertical position.

WARNING: Crush hazard. The beam is heavy – do not let it just drop. It could crush fingers or cause damage to hydraulic lines or the splitter.

3) To return to horizontal position, lower beam carefully in a controlled manner until it rests on the tow bar, lock beam in the horizontal position with catch pin.

Starting Engine,Loading

STARTING YOUR ENGINE

To safely start your engine, follow these steps (Fig.20).

Note: No choke is required on warm engines. Pull the recoil starter handle until resistance is felt, then pull it out with a rapid full arm stroke. Let the starter rope rewind slowly, repeat if necessary. Allow engine to run at no load for 5 minutes upon each initial start-up to allow engine to stabilize.

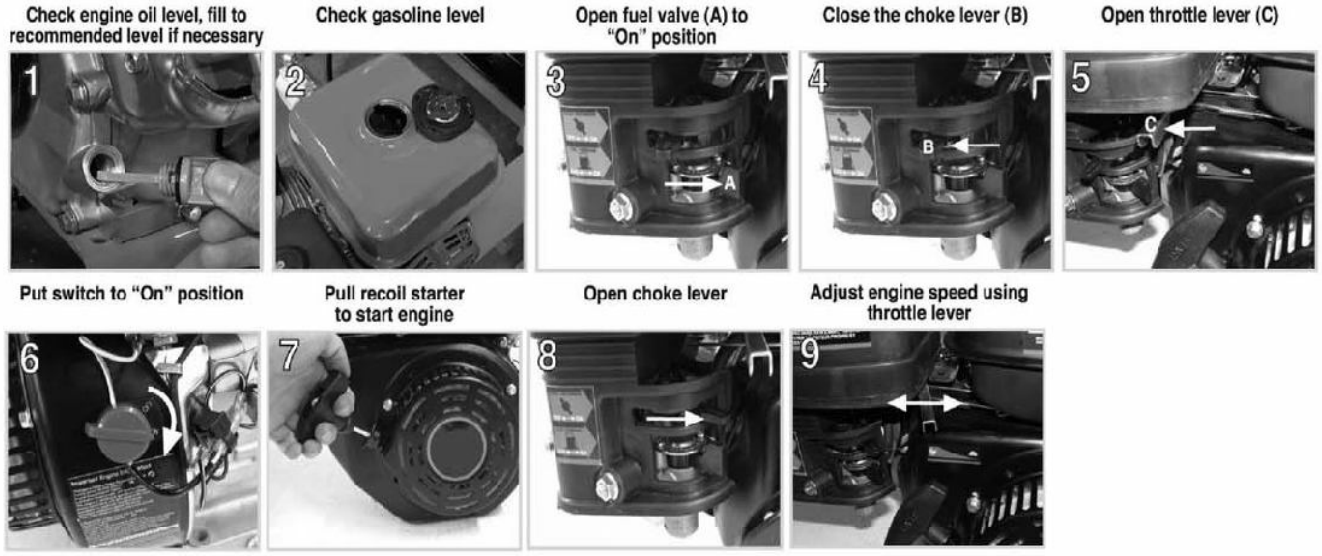


Figure 20

STOPPING YOUR ENGINE

1) Move the throttle lever (step 9, Fig.20) towards the right.
2) Turn the engine switch (step 6, Fig.20) to the "OFF" position (upwards).
3) Close the fuel shut-off valve (step 3, Fig.20) by moving it towards the left.

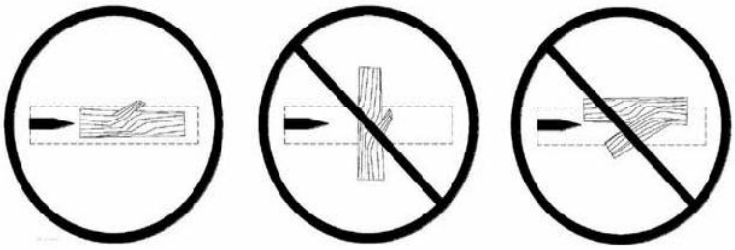


Figure 21

LOADING LOGS (Fig.21)

Load log onto beam with a cut end against the endplate – positioned for a lengthwise cut.

Notes:

a) The log splitter is designed only for cutting lengthwise with the grain, NOT for cutting across the grain.
b) This log splitter is designed for cutting logs only up to a maximum of 16" in diameter and 24" long. Larger diameter logs could get stuck on the wedge and longer logs will not fit on the beam.

WARNING: ALWAYS keep hands and feet away from the endplate, wedge, and partially split logs while loading, operating and unloading the log splitter.

Important safety instruction: Vertical position loading: Place the log on the endplate and turn it until it leans against the beam and is stable. If the log is too big or oddly shaped, stabilize the log with wooden shims between the log and endplate or ground. DO NOT use your leg or knee to stabilize the log. NEVER stabilize the log by placing your hand on top of the log.

Moving and Towing Log Splitter

MOVING THE LOG SPLITTER

1) Make sure the log splitter is locked in the horizontal position with hitch pin before moving. NEVER ATTEMPT to move log splitter when it is in vertical position.

2) Make sure the engine is off. Never move the log splitter with its engine running.

3) Turn engine fuel valve off to prevent carburetor flooding and reduce the chance of fuel leakage.

4) Lock the front outrigger leg (A) Fig.24 in the "DOWN" position and the rear support leg (B) in the "UP" position before you move the log splitter.

5) Move log splitter by hand either directly to chosen work site or to vehicle hitch for towing.

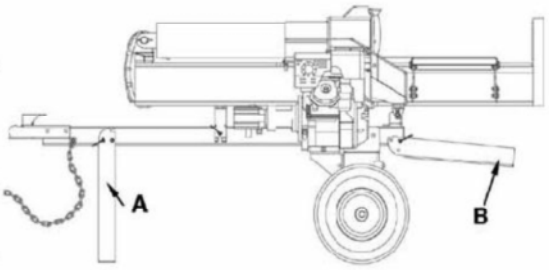


Figure 24

Important safety instructions:
-Do not move the log splitter up or down hills by hand—use a towing vehicle.
-Never allow anyone to sit or ride on the log splitter.
-Never transport cargo or wood on the log splitter.

TOWING THE LOG SPLITTER

1) Review towing safety instructions in your vehicle manual.

2) Check tires. Make sure tires are fully inflated and in good repair. **WARNING:** Do not over-inflate tires. Do not exceed 30 PSI. Pressures higher than 30 PSI can cause the tire and wheel to rupture and explode.

3) Attach the 2" ball coupler (Fig.25) to a class 2 or higher vehicle hitch with 2" ball (only).

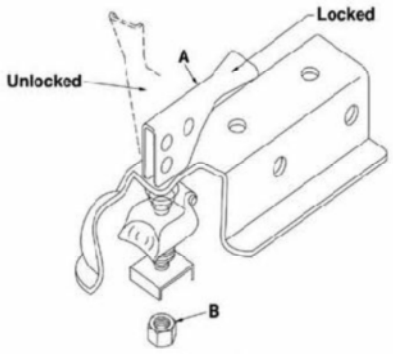


Figure 25

4) Adjust coupler to ball by raising locking lever (A) Fig.25 and turning lock nut (B) with fingers.

5) Proper adjustment is obtained when coupler is as tight as possible on ball and locking lever can still be opened and closed.

6) Lower the locking lever to its closed position to secure the attachment.

7) Attach safety chains (C) Fig.26 to vehicle. The two safety chains must be used while towing. Cross safety chains under the coupler allowing only enough slack for vehicle turns.

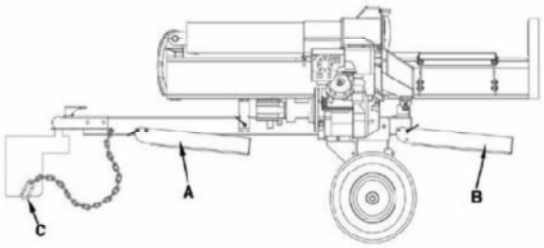


Figure 26

8) Lock the front outrigger leg (A) Fig.26 in the "UP" position and the rear support leg (B) in the "UP" position. (Both outrigger legs must remain in the up position during towing.)

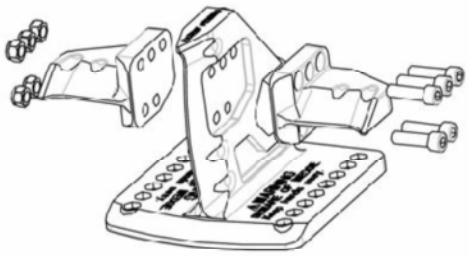
4-Way Wedge Wings

4-Way Wedge Wings (optional)

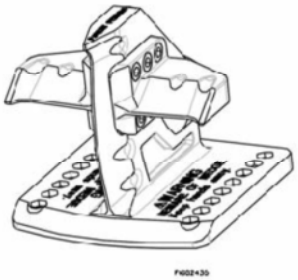
Wing Assembly

1. Unbox and identify components
2. Insert Nylon nuts into hex cutouts in wing
3. Position wings into proper locations on the wedge and bolt into position using supplied bolts
4. Tighten the bolts with a 3/8" hex wrench

Exploded View



Assembled View



⚠WARNING

- 4-Way Wings create additional pinch points when the wedge is moving forward or backwards. Keep hands clear of the wedge, wedge wings, and the log while the wedge is moving. When the log is caught on the wedge do not use the auto-return feature. Retract wedge manually, paying close attention so the log does not hit the engine or control valve.
- Pay particular attention to stringy wood, such as elm, because it becomes lodged on the wedge easily.

Before Each Use-Inspection / Maintenance

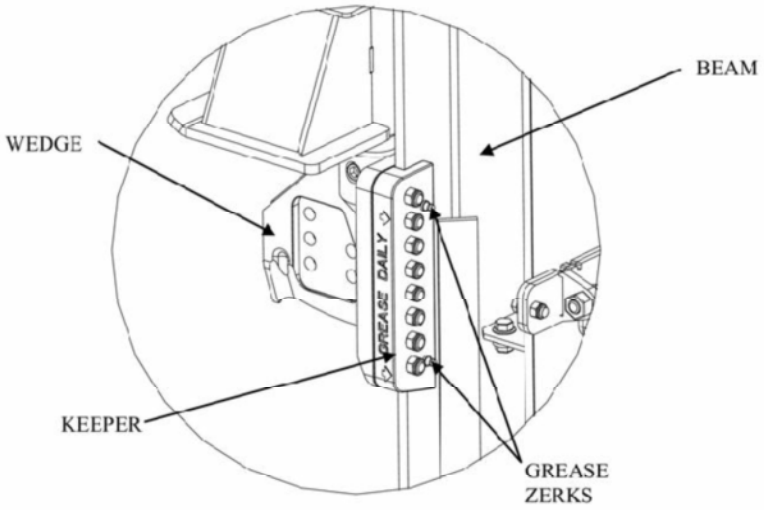
Step One: Inspect and maintain log splitter before each use

If the log splitter has been used previously, it must be inspected and maintained BEFORE EACH SUBSEQUENT USE.

⚠WARNING

ALWAYS shut off the engine, disconnect the spark plug, and relieve system pressure before inspecting, cleaning, adjusting, or repairing the splitter. Relieve system pressure by moving Split Control Lever back and forth several times.

IMPORTANT:
If a part needs replacement, only use parts that meet the manufacturer's specifications. Replacement parts that do not meet specifications may result in a safety hazard or poor operation of the log splitter.

1. Engine off / relieve pressure	**Perform all inspections/repairs with the engine off and hydraulic system pressure relieved.** 1. Make sure engine is off and cool. 2. Disconnect the spark plug 3. Relieve all hydraulic system pressure by moving the Split Control Lever back and forth several times.
2. Remove debris	**Remove debris from engine, muffler, and moving parts.** 1. Engine debris. Debris on a hot engine can be a fire hazard. Clean debris and chaff from engine cylinder head, cylinder head fins, blower housing rotating screen, and muffler areas. Avoid contact with hot muffler. 2. Other debris. Debris on moving parts can cause excess wear. Clear debris from the slide beam, wedge, and endplate.
3. Fuel tank / lines	**Check fuel tank and fuel lines for leaks.** Any fuel leak is a fire hazard. Fix any fuel leaks before starting engine.
4. Mechanical parts	**Check to be sure that all nuts and bolts are tight** to make sure the log splitter is in safe working condition. **Apply grease to grease zerks.** 

Before Each Use-Inspection / Maintenance

5. Hydraulic system	**Check the hydraulic system carefully:** 1. Visually inspect all hoses, tubing, clamps/fittings, pump, and cylinder for cracks, fraying, kinks, or other damage. 2. Check all components for oily residue, which may indicate a leak. Do NOT operate the log splitter if there is any indication of damage or oily residue. Small leaks in hydraulic lines can cause severe injuries and can also be an indication of catastrophic failure in the near future. The life of hydraulic hoses may be from a few months to a few years, depending on use and storage patterns. ⚠ **WARNING**: High fluid pressures and temperatures are developed in hydraulic log splitters. Hydraulic fluid escaping through a pin hole sized opening can burn or puncture skin, resulting in wounds that could cause blood poisoning, infection, disability, gangrene, amputation, or death. Therefore, the following instructions should be heeded at all times when inspecting or servicing the hydraulic components of the log splitter: • Stop the engine, disconnect the spark plug, and move all control valve handles back and forth to relieve pressure before changing or adjusting hydraulic system components such as hoses, tubing, fittings or other components. • NEVER check for leaks with your hand. Leaks can be located by holding a piece of cardboard or wood (at least two feet long) with your hand at one end and passing the other end over the suspected area (wear eye protection). Look for discoloration of the cardboard or wood. • NEVER adjust the pressure setting of the pump or valve. • If injured by escaping fluid, no matter how small the wound is, see a doctor at once. A typical injection injury may be a small puncture wound that does not look serious. However, severe infection or reaction can result if proper medical treatment is not administered immediately by a doctor who is familiar with injection injuries.
6. Hydraulic oil level	**Check the hydraulic oil level using the dipstick.** Fill as needed. Note: Do not thread in the oil dipstick when checking hydraulic oil level. ⚠ **WARNING:** NEVER remove the hydraulic oil dipstick when the engine is running or hot. Hot oil can escape causing severe burns. Allow log splitter to cool completely before removing hydraulic oil dipstick.
7. Engine	**Inspect and perform engine maintenance as directed in the engine manual.**
8. Spark arrestor muffler	**If the engine is equipped with a spark arrestor muffler, clean and inspect it regularly (follow spark arrestor manufacturer's service instructions).** Replace if damaged.
9. Tires	**Make sure tires are fully inflated and in good repair if you will be towing the splitter.** See tire sidewall for recommended tire pressure. ⚠ **WARNING:** • Do not over-inflate tires. Serious injury can occur if tire explodes. • When seating a bead after repair, do not exceed 30 PSI. Pressures higher than 30 PSI can cause the tire and wheel to rupture and explode.
10. Shields / guards	**Replace all guards and shields after servicing the log splitter.**

Before Each Use - Fueling

Step Two: Fueling

⚠ WARNING

Gasoline is highly flammable and explosive. You can be burned or seriously injured when handling fuel. Use extreme care when handling gasoline.

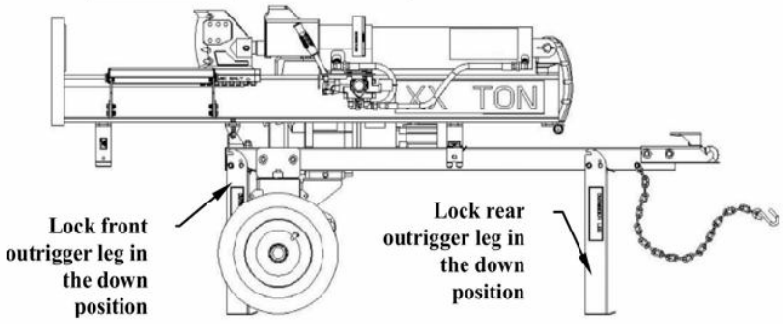
1. Engine off / cool	**The engine must be off and allowed to cool at least two minutes before adding fuel.** ⚠ **WARNING:** A running engine is hot enough to ignite fuel. Never add fuel or remove gas cap if engine is running or still hot.
2. Outdoor location	**Fill fuel tank outdoors – never indoors.** ⚠ **WARNING:** Gasoline vapors can ignite if they collect inside an enclosure. Explosion can result.
3. Remove gas cap	**Remove engine gas cap.**
4. Add gasoline	**Add gasoline through fill opening from a UL-approved container.** **Important Safety Instructions:** • **Use approved container**. NEVER pump fuel directly into engine at gas station. Static charge can build and ignite fuel. Use a UL approved fuel container to transfer gas to the engine. • **Don't overfill**. DO NOT overfill the gas tank. Allow at least 1/2" of empty space below the fill neck to allow for fuel expansion • **Heat / flames / sparks**. Stay away from sources of heat, flame, or sparks while adding fuel.
5. Spills / splashes	**Clean up fuel spills /splashes immediately.** 1. Move the log splitter away from spilled fuel on the ground. 2. Wipe fuel off engine and wait 5 minutes for excess fuel to evaporate before starting engine. 3. Gas soaked rags are flammable and should be disposed of properly. 4. If gasoline is spilled on your skin or clothes, change clothes and wash skin immediately.
6. Replace gas cap	**Replace gas cap securely before starting engine.**
7. Gasoline storage	**Store extra gasoline in a cool, dry place in a UL approved, tightly sealed container.**

Before Each Use – Work Site Selection and Set-up

Step Three: Work site selection and log splitter set-up

⚠ WARNING

It is important to select an appropriate work site and properly set up the log splitter in order to minimize the risk of slips and falls, equipment rolling or tipping over, carbon monoxide poisoning, and accidental fires.

1. Select location	**Select an appropriate location for operating the log splitter.** Requirements: 1. Dry-level surface with good footing. Stay clear of areas with mud, ice, tall grass, weeds, brush, or snow. 2. Outdoors, away from air intakes. ⚠ **WARNING:** The running engine gives off carbon monoxide, a poisonous gas that can kill you. You CANNOT smell it, see it, or taste it. • ONLY run log splitter OUTDOORS and away from air intakes. NEVER run log splitter inside homes, garages, sheds, or other buildings or semi-enclosed spaces. These spaces can trap poisonous gases, EVEN if you run a fan or open windows. • If you start to feel sick, dizzy, or weak while using the log splitter, shut off the engine and get to fresh air RIGHT AWAY. See a doctor. You may have carbon monoxide poisoning.
2. Fire precautions	**Take the following precautions against fire:** 1. **IMPORTANT: If your splitter will be used near any unimproved forest, brush, or grassy covered land, *then engine must be equipped with a spark arrestor*.** (See the "Specifications" section of this manual to determine if your splitter already has a spark arrestor. Contact PowRkraft Product Support at 1-877-876-7895 for information about obtaining a spark arrestor for your log splitter if it is unequipped.) 2. Make sure you comply with applicable local, state and federal codes. 3. Keep a fire extinguisher available (classified for both ordinary combustibles & flammable liquids) as a precautionary measure when operating the log splitter in dry areas.
3. Position splitter 7' from any combustibles or flammable liquids	**Position muffler at least 7 ft. from combustible objects during operation.** Hot exhaust fumes from engine could cause fire. Also, hydraulic oil leaking or spraying on hot engine can ignite.
4. Lock both outrigger legs DOWN	**Lock both the outrigger legs in the "DOWN" position.** 
5. Block wheels	**Block the wheels to prevent unintended movement of the log splitter.**
6. Apply grease	**Apply grease into grease zerks located under both keepers.**

Splitting Operation

⚠ WARNING

Before starting this log splitter, review the following instructions and safety information for safe operation of the log splitter.

Failure to follow these rules may result in serious injury to the operator or bystanders from moving parts that crush, cut, or entangle from flying objects, burns, fire, falling or tripping, or from carbon monoxide poisoning.

General safety information:

- **Read manual.** Do not allow anyone to operate the log splitter who has not read the Owner's Manual or has not been instructed on the safe use of the splitter. The log splitter owner should instruct all operators in safe log splitter operation.
- **Age restrictions**. Never allow anyone under 16 years old to operate the log splitter. Anyone 16 years and older must be trained and supervised by a trained adult.
- **Intended use**. Log splitters should only be used for splitting wood logs, lengthwise with the grain. Do not use for other purposes as unforeseen hazards may result.
- **Modifications**. Never modify or alter the log splitter in any way. Modifications can create serious safety hazards and will void the warranty**:**
- **Attachments**. Never add attachments to the splitter, except for authorized accessories supplied by the manufacturer with instructions for safe installation and use.
- **Engine speed**. The maximum engine speed is preset at a safe limit. Never attempt to modify the engine speed setting to run at a higher speed.
- **Fuel/exhaust system**. NEVER modify or add to the exhaust system, fuel tanks, or fuel lines. Fire can result.
- **Remote control**. NEVER attach a rope, cable, or other remote device to the splitting control.
- **Splitting wedge**. NEVER attempt to change the height or speed of the splitting wedge.
- **Pressure setting.** NEVER increase the pressure setting of the pump or control valve.
- **Safety equipment / controls**. Always operate the log splitter with all safety equipment in place and in good working order, and all controls properly adjusted for safe operation.
- **Know how to stop**. Be thoroughly familiar with all controls and with the proper use of the equipment. Know how to stop the log splitter and relieve system pressures quickly if needed.
- **Operating speed**. Always operate the log splitter at the manufacturer's recommended speed. The maximum speed of the engine pump and wedge are preset within safe limits.
- **Daylight only**. Only use the log splitter in daylight so you can see what you are doing.
- **Smoking / sparks**. Never smoke while operating the log splitter, and never operate near sources of sparks or flames.
- **Under the influence**. Never operate, or let anyone else operate, the log splitter while under the influence of alcohol, drugs, or medication.
- **Unattended**. Never leave the machine unattended while the engine is running.
- **Refueling**. Never refuel the engine until it has cooled at least two minutes.
- **Adjusting / repairing**. Always make sure the engine is off before cleaning, repairing or adjusting the splitter, except as recommended by the manufacturer. In addition, disconnect the spark plug and move all control handles back and forth to relieve system pressure *before changing or adjusting hydraulic system components* such as hoses, tubing, fittings or other components.
- **Replace labels**. Always make sure safety labels are in place and in good condition. If a safety label is missing or not legible, order new labels because unsafe operation can result. Call 1-877-876-7895 to order new safety labels.

Splitting Operation

1. Put on protective clothing / gear

Wear the following protective clothing and safety gear:

1) **Eye protection**. Always wear safety glasses or goggles when operating the machine. Pieces of log may fly out and serious eye injury can occur.
2) **Boots**. Falling logs can crush feet. Always wear safety shoes or heavy boots when operating or helping to load logs.
3) **Gloves**. Wear snug fitting gloves without drawstrings or loose cuffs.
4) **Hearing protection**. The use of earplugs or other hearing protection device is recommended.
5) **No Loose / dangling**. Loose or dangling apparel can become entangled in moving parts. Never wear jewelry or loose-fitting clothing.

2. Lock & block

Block the wheels to prevent unintended movement of the log splitter. Check that:

1) The outrigger legs are both locked in the DOWN position.
2) The wheels are blocked.

3. Set to horizontal or vertical:

Set log splitter into either the horizontal or vertical splitting position

The HORIZONTAL splitting position is used for lighter logs that can be easily loaded onto the beam. The VERTICAL splitting position is used for light logs as well as heavy logs that are difficult to load onto the beam.

Note:

Musculoskeletal injury can result from lifting logs onto the log splitter if proper lifting techniques are not used or the logs are too heavy for a person's size, weight, or strength. In some cases, logs as small as 8" in diameter and 14" in length may be heavier than what some persons should be repeatedly lifting onto the splitter.

The use of the vertical splitting position can greatly reduce the need to lift logs onto the splitter. Employers are advised to consider NIOSH lifting guidelines when assigning employees to log splitting tasks for an extended period of time.

⚠ **WARNING**: NEVER change splitting positions with the engine running. You may contact the muffler and receive serious burns.

a) Set to Horizontal position

Make sure beam is locked securely in the horizontal position by checking the horizontal lock. Rear outrigger leg must be locked in horizontal splitting position.

Horizontal Splitting Position

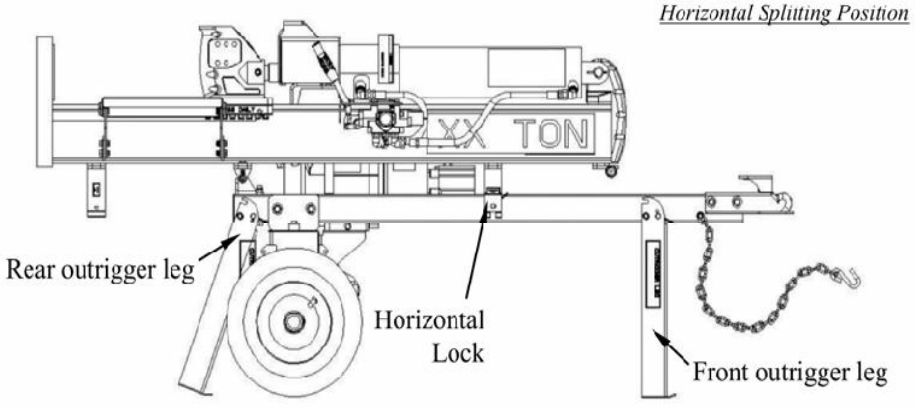


Fig 02412

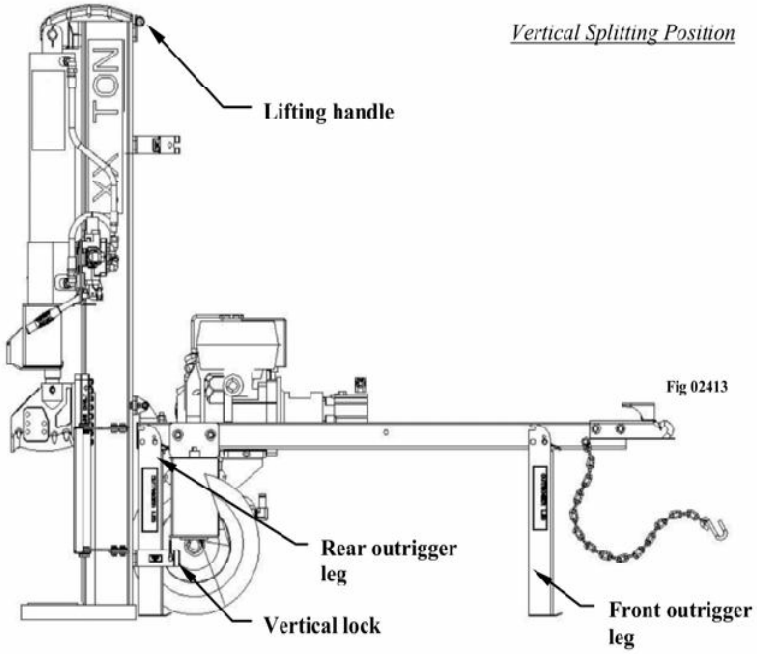
Splitting Operation

b) Set to Vertical position

1) **Lock rear outrigger leg in down position.**
2) **Pull out horizontal lock catch pin, grasp lifting handle and lift beam until it rotates into vertical position.**

⚠**WARNING**: Crush hazard. The beam is heavy – do not let it just drop. It could crush fingers or cause damage to the splitter.

Vertical Splitting Position



3) **Lock in vertical position using catch pin through the vertical lock.**
4) **To return to horizontal position, unlock vertical position, grasp lifting handle and lower beam carefully in a controlled manner until it rests on the tow bar, lock beam in the horizontal position with catch pin.**

4. Start engine

Start the engine.

Make sure the the fuel tank switch and the engine switch located on the engine are set to the "ON" position. See the engine owner's manual for engine starting instructions.

NOTE:

a) Make sure the hydraulic oil is above 10°F before starting the engine. Cold hydraulic oil can damage the hydraulic pump.

b) If outdoor air temperature is below 32°F, allow log splitter to warm up by extending and returning the wedge several times before splitting wood.

WARNING:

⚠**Burns.** To avoid burns, stay clear of hot muffler if you are starting a warm engine.

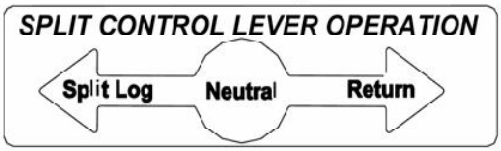
Carbon monoxide. The running engine gives off carbon monoxide, a poisonous gas that can kill you. You CANNOT smell it, see it, or taste it. If you start to feel sick, dizzy, or weak while using the log splitter, shut off the engine and get to fresh air RIGHT AWAY. See a doctor. You may have carbon monoxide poisoning.

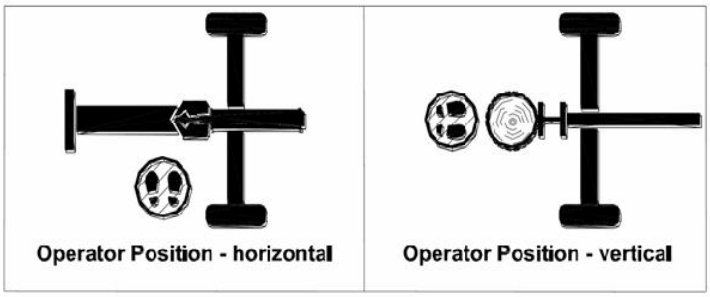
Other exhaust dangers. Engine exhaust, some of its constituents, and certain vehicle components contain or emit chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm. Avoid inhalation of exhaust.

Splitting Operation

6. Extend wedge

Move Split Control Lever toward endplate to extend wedge and split log.





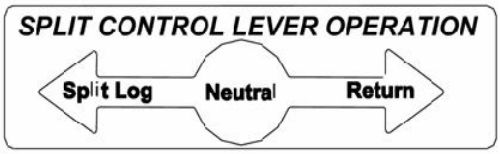
Important safety instructions:

- **Operator position**. ALWAYS operate the log splitter from the manufacturer's indicated OPERATOR POSITION. (See diagram above.) Other positions are unsafe because they can increase the risk of injury from crushing, cutting, flying objects, or burns.
- **Remove hands**. Remove both hands from log before activating Split Control Lever.
- **Hand activate**. Use only your hand to operate the Split Control Lever. Never use any other body part, or a rope, cable, or other remote device to actuate the control.
- **Second person**. Many accidents occur when there is more than one person involved in loading and operating the log splitter. Only one person should operate the controls. *If a second person is assisting in loading logs, the operator must NEVER actuate the Split Control Lever until the assistant and all bystanders are at least 10 feet away. NEVER allow an assistant to hold the log in place while the operator actuates the Split Control Lever.*

7. Stop wedge

Release Split Control Lever to stop wedge movement when log is split.

⚠**WARNING:** Cracks in logs can close quickly and pinch fingers. Keep fingers away from any cracks that open in partially split logs.



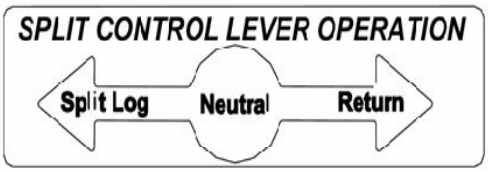
8. Important STUCK LOG procedure

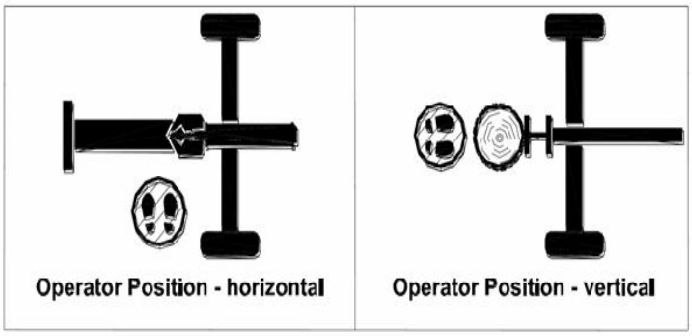
If a log does not split completely and becomes stuck on the wedge, follow the instructions below to remove the log.
A log can become stuck to the wedge if the wedge becomes embedded in the log and the log doesn't split and separate. This can happen if the log is too stringy or tough to split completely. A stuck log will move back with the wedge on the initial attempt to retract the wedge. If this happens, retract the wedge completely to allow the splitter to strip the log from the wedge. Keep hands clear of log and wedge while wedge is retracting.

Splitting Operation

6. Extend wedge

Move Split Control Lever toward endplate to extend wedge and split log.





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7. Stop wedge

Release Split Control Lever to stop wedge movement when log is split.

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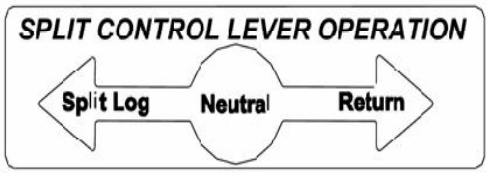

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Splitting Operation

⚠WARNING: NEVER attempt to remove a stuck log by:

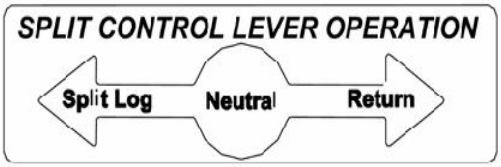
- Modifying the splitter.
- Adding attachments to the splitter.

Personal injury could result from log or metal pieces flying out at high speed toward the operator or bystanders, or the splitter could become damaged.

9. Return wedge

Move Split Control Lever away from end plate to return wedge.

Once the control valve is actuated in the return direction, the wedge is designed to keep returning by itself completely and then stop automatically.



⚠WARNING:
Stay clear while the wedge is returning. It is still powerful enough on the return stroke to cause serious injury.

10. Remove split wood

Remove split wood from area.

Move each log away from log splitter after it is split. Split logs left near the log splitter are a trip hazard.

11. After use

1. **Turn off engine.**
2. **Remove engine debris.**
   Debris on a hot engine can be a fire hazard. After the engine is off, clean debris and chaff from engine cylinder head, cylinder head fins, blower housing rotating screen, and muffler areas.

   ⚠ **WARNING:** Avoid contact with hot muffler.
3. **Return to horizontal position.**
   If in the vertical position, return log splitter to the horizontal position for greater stability and to prepare for transportation. Avoid contact with hot muffler.

Storage

⚠ WARNING
Gasoline vapors can ignite and cause a fire. Select a well-ventilated storage away from sources of heat, flame, or sparks.

Follow the instructions below for storing your log splitter between uses.

1. Retract wedge	**Retract the wedge completely to keep the rod protected from corrosion.**
2. Cool	**Allow the machine to cool 5 minutes before storing.** ⚠ **WARNING:** A hot engine can be a fire hazard.
3. Wipe with oily rag	**Wipe the beam and wedge with an oily rag to prevent corrosion.**
4. Engine manual	**Refer to the engine manual for proper engine storage instructions.** **CAUTION:** Gasoline will oxidize and deteriorate in storage. Old gasoline in the engine will cause hard starting and leave gum deposits that can clog the fuel systems. Deterioration problems may occur within a few months, or even less if gasoline was not fresh when you filled the tank. **Short-Term Storage:** 1. Consider adding a fuel stabilizer to extend fuel storage life. 2. Leave the fuel valve lever in the OFF position to reduce the possibility of fuel leakage. **Long-Term Storage:** (between infrequent uses and at end of season) Drain the fuel tank and carburetor as instructed in the engine owner's manual. Important Safety Instructions • Always drain fuel from tank in outdoor, well-ventilated area. • Stay away from sources of heat, flame, or sparks while handling fuel. • Clean up fuel spills/splashes immediately.
5. Splitter storage location	**Store the log splitter in a location away from corrosive material, sources of heat, open flames, sparks or pilot lights.** ⚠ **WARNING:** Never store log splitter inside where there is a source of heat or an open flame, spark or pilot light – such as water heaters, space heaters, furnaces, clothes dryers, or other gas appliances – EVEN IF the log splitter's gas tank is empty, residual gasoline vapors could ignite. NOTE: Do not store the log splitter near fertilizer or any other corrosive material.
6. Gasoline storage	**Store gasoline in a cool, dry place in an UL approved tightly sealed container.** ⚠ **WARNING:** Gasoline vapors can ignite if they collect inside an enclosure and explosion can result.

Periodic Maintenance

In addition to the maintenance performed with each use, periodic maintenance should also be performed according to the following schedule.

⚠WARNING

ALWAYS shut off the engine, disconnect the spark plug, and relieve system pressure before cleaning, adjusting, or repairing the splitter. Relieve system pressure by moving Split Control Lever back and forth several times.

IMPORTANT:

If a part needs replacement only use parts that meets the manufacturer's specifications. Replacement parts that do not meet specifications may result in a safety hazard or poor operation of the log splitter.

1. Engine maintenance	**Perform engine maintenance as specified in engine owner's manual.**
2. Hydraulic Oil Change	**Change Hydraulic Oil Annually or Every 100 Hours.** ⚠ **WARNING:** High fluid pressures and temperatures are developed in hydraulic log splitters. Hydraulic fluid escaping through a pin hole sized opening can burn or puncture skin, resulting in wounds that could cause blood poisoning, infection, disability, gangrene, amputation, or death. Therefore, the following instructions should be heeded at all times when inspecting or servicing the hydraulic components of the log splitter. • NEVER check for leaks with your hand. Leaks can be located by holding a piece of cardboard or wood (at least two feet long) with your hand at one end and passing the other end over the suspected area (wear eye protection). Look for discoloration of the cardboard or wood. • NEVER adjust the pressure of the pump or valve. • If injured by escaping fluid, no matter how small the wound is, see a doctor at once. A typical injection injury may be a small wound that does not look serious. However, severe infection or reaction can result if proper medical treatment is not administered immediately by a doctor who is familiar with injection injuries. 1. **Use 10wt AW32, ASLE H-150, or ISO32 oil.** 2. **Relieve hydraulic system pressure by moving Split Control Lever back and forth several times.** 3. **Remove hydraulic oil dipstick.** ⚠ **WARNING:** NEVER remove the hydraulic oil dipstick when the engine is running or hot. Hot oil can escape causing severe burns. Allow the log splitter to cool completely before removing hydraulic oil dipstick. 4. **Remove the drain plug from the hydraulic tank to drain the hydraulic oil into a 10 gallon pan.** 5. **Remove suction strainer and wipe off debris with a dry cloth.** 6. **Fill the hydraulic tank with wedge retracted.** 7. **Dispose of used oil at an oil-recycling center. Used hydraulic oil is hazardous waste.** 8. **Extend and retract wedge 5 (five) times to purge air from the system.** 9. **Check hydraulic oil level and fill if necessary. Note: Do not thread in the oil dipstick when checking the hydraulic oil level.**
3. Spark arrestor muffler	**If the engine is equipped with a spark arrestor muffler, clean and inspect it regularly (follow manufacturer's service instructions).** Replace if damaged.

Troubleshooting

⚠WARNING

Before troubleshooting or attempting to service, read the following safety instructions to avoid serious injury to the operator or bystanders from moving parts that can crush or cut, burns, fire or explosion, or escaping high pressure hydraulic fluid.

Important Safety Instructions:

1. **Engine off.** Always make sure the engine is off before cleaning, repairing or adjusting the splitter, except as recommended by the manufacturer.
2. **Hydraulic safety.** High fluid pressures and temperatures are developed in the hydraulic log splitters. Hydraulic fluid escaping through a pin hole sized opening can burn or puncture skin, resulting in wounds that could cause blood poisoning, infection, disability, gangrene, amputation, or death. Therefore, the following instructions should be heeded at all times when inspecting or servicing the hydraulic components of the log splitter:
   - Stop the engine, disconnect the spark plug, and move all control valve handles back and forth to relieve pressure before changing or adjusting hydraulic components such as hoses, tubing, fittings, or other components.
   - Do not remove the hydraulic oil fill cap when the engine is running. Hot oil can escape causing severe burns. Allow the log splitter to cool completely before removing the hydraulic oil fill cap.
   - Do not adjust the pressure setting to the pump or valve.
   - Do not check for leaks with your hands. Leaks can be located by holding a piece of cardboard or wood (at least 2 feet long) with your hand at one end and passing the other end suspected area (wear eye protection). Look for discoloration of the cardboard or wood.
   - If injured by escaping fluid, no matter how small the wound is, see a doctor at once. A typical injection injury may be a small puncture that does not look serious. However, severe infection or reaction can result if proper medical treatment is not administered immediately by a doctor who is familiar will injection injuries.

Problem	
Wedge will not move	Solution: A,D,E,H,J
Slow wedge speed when extending or retracting	Solution: A,B,C,H,I,K
Wood will not split or splits extremely slow	Solution: A,B,C,F,I,K
Engine bogs down during splitting	Solution: G
Engine stalls under low load condition	Solution: D,E

Cause	Solution
A- Insufficient oil to pump	Check oil level in reservoir
B- Air in oil	Check oil level in reservoir, check for leaks in the suction line
C- Excessive pump inlet vacuum	Check pump inlet hose for blockage or kinks
D- Blocked hydraulic lines	Flush and clean the splitter hydraulic system
E- Blocked control valve	Flush and clean the splitter hydraulic system
F- Low control valve setting	Adjust control valve with a pressure gauge
G- High control valve setting	Adjust control valve with a pressure gauge
H- Damaged control valve	Return control valve for authorized repair
I- Internal control valve leak	Return control valve for authorized repair
J- Damaged cylinder piston	Return cylinder for authorized repair
K- Internally damaged cylinder	Return cylinder for authorized repair

Any Questions, Comments, Problems or Parts Orders

Call PowRkraft Product Support 1-877-876-7895

Specifications

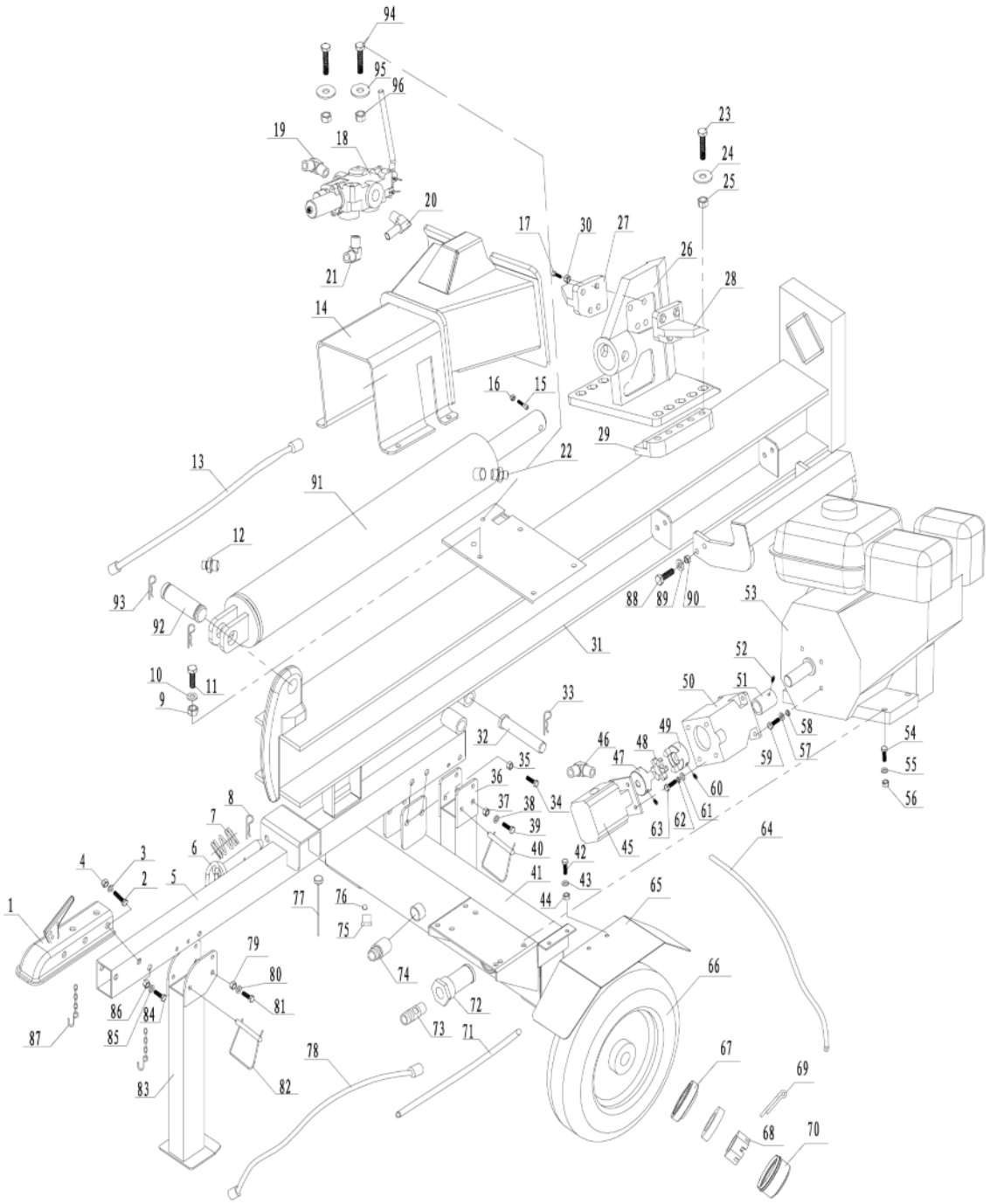
	37T Log Splitter
Hydraulic Fluid Type	32# Low Freezing Anti-wear Hydraulic Oil
Hydraulic Oil Capacity	8Gallon
Grease Type	Lithium-based Grease
Grease Volume	0.1kg
Fuel Tank Capacity	6.5Gallon
Max.Towing Speed	45MPH
Max.Log Length	61cm
Max.Log Diameter	36cm
Pressure	3500PSI
Flow	16gpm

The manufacturer reserves the right to make improvements in design and/or changes in specifications at any time without incurring any obligation to install them on units previously sold.

Any Questions, Comments, Problems or Parts Orders

Call PowRkraft Product Support 1-877-876-7895

Parts Breakdown – Exploded View 37-ton



Parts Breakdown – Exploded View 37-ton

No.	Model	Qty.	No.	Model	Qty.	No.	Model	Qty.
1	Head cover	1	33	Φ4 Spring pin	1	65	Fender	2
2	M10x75 Bolt	2	34	M12x75 Bolt	2	66	Wheel	2
3	Φ10 pad plate	4	35	M12 Locknut	2	67	Axle	2
4	M10 Locknut	2	36	Rear support leg	1	68	Axle nut	2
5	Towing bar	1	37	M10 Locknut	1	69	Φ3x35 Cotter pin	1
6	Pin shaft	1	38	Φ10 pad plate	1	70	Outer cap	1
7	Spring	1	39	M10X75 Bolt	1	71	Wire hose	1
8	Φ4 Spring pin	1	40	U Pin	1	72	Filter	1
9	M10 Locknut	4	41	Oil tank	1	73	Oil pump inlet fitting	1
10	Φ12 Spring washer	4	42	M8x20 Bolt	4	74	Oil return fitting	1
11	Φ10 Pad plate	4	43	Φ8 pad plate	4	75	ZG1/2 Connector	1
12	M10X30 Bolt	1	44	M8 Locknut	4	76	Magnet	1
13	2-1/2 Connector	1	45	Pump	1	77	Oil dipstick	1
14	Wedge cover	1	46	Hydraulic hose fitting(2)	1	78	High-pressure oil hose(2)	1
15	M12X80 Hex socket bolt	1	47	Coupling(1)	1	79	M10 Locknut	1
16	M12 Locknut	1	48	Coupling washer	1	80	Φ10 Pad plate	2
17	M12X40 Hex socket bolt	4	49	Coupling(2)	1	81	M10X75 Bolt	1
18	Control valve	1	50	Pump bracket	1	82	U pin	1
19	Hydraulic hose fitting(2)	1	51	Spacing sleeve	1	83	Support leg	1
20	Hydraulic hose fitting(1)	1	52	M6x10 Tight pin	1	84	M10x80 Bolt	1
21	Hydraulic hose fitting(2)	1	53	Engine	1	85	Φ10 Pad plate	2
22	2-1/2 Connector	1	54	M10x40 Bolt	4	86	M10 Locknut	1
23	M12X55 Bolt	10	55	Φ10pad plate	4	87	Safety chain	2
24	Φ12 Pad plate	10	56	M10 Locknut	4	88	M12X25 Bolt	8
25	M12 Locknut	10	57	Φ8 pad plate	4	89	Φ12 Pad plate	8
26	Wedge	1	58	Φ8 Spring washer	4	90	M12 Locknut	8
27	Cross wedge(left)	1	59	M8x25 Bolt	4	91	Hydraulic cylinder	1
28	Cross wedge(right)	1	60	M6x10 Tight pin	2	92	Pin	1
29	Slide plate	2	61	Φ8 pad plate	4	93	Φ4 Spring pin	2
30	M12 Nut	4	62	Φ9 Spring washer	4	94	M8x40 Bolt	2
31	Guide way	1	63	M8x20 Bolt	4	95	Φ8 Pad plate	2
32	Pin shaft	1	64	Oil resistance low-pressure hose	1	96	M8 Locknut	2

Pow'R'kraft®

Parts Request Form

Fax to 541-895-2756 or E-mail
Parts@PowRkraft.com

Name: _____

Address: _____

City State Zip: _____

Phone: _____

E-mail: _____

Model Number: _____

Serial Number: _____

Purchased From: _____

Purchase Date: _____

Item No.	Description	Qty	Price	Amount

Comments:

Pow'R'kraft Brand
LIMITED WARRANTY

Unless otherwise stated on purchase invoice, Betst Products, llc. warrants to original Purchaser that Pow'R'kraft products are free from major defects in material under normal use and service for a period of Two (2) Years from the date the product is purchased or shipped whichever date is later. Commercial use 180 days. Use at address that is not yours, is considered commercial use. Consumable, Expendable, Wear Items (Examples: Rubber & plastic parts, hydraulic hoses, belts, tires, cables, blades, tines, wedges, teeth, tips, chains, pins, brushes, filters, etc.) and cracked hydraulic pumps, bent or broken cylinder rods are not covered under this warranty. Warranty does not cover items that have been modified, damaged by abuse or usage not in accordance with design or maintenance.

Betst Products, llc. obligation under this warranty is to repair or replace defective product upon approval by; Betst Products, llc., 83371 Melton Rd. N., Creswell OR 97426 that Warranty Claim is Valid. Product shall be returned upon request of Betst Products, llc. Transportation charges to be prepaid by buyer. **Gasoline or diesel engines used to power Pow'R'Kraft products are covered by the warranty of the appropriate engine manufacture and Purchaser must look to the engine manufacture for all issues relating to engine operation.**

Betst Products, llc. assumes no responsibility for outside labor.

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THIS IS THE SOLE AND ONLY WARRANTY OF POW'R'KRAFT PRODUCTS. NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESSED OR IMPLIED, IN FACT OR BY LAW,

This warranty shall not be interpreted to render Betst Products, llc., or any authorized agent liable for injury or damages of any kind or nature, direct, consequential, or contingent, to person or property.

The sole and only remedy in regard to any defective products shall be the repair or replacement thereof as herein provided. Betst Products, llc., agent(s) of Betst Products, llc. shall not be liable for any consequential, special, incidental or punitive damages resulting from or caused by any such defects.

Betst Products, llc. reserves the right to make improvements in design or changes in specifications at any time, without incurring any obligations to owners of units previously sold.

No one is authorized to alter, modify, or enlarge this warranty nor the exclusions, limitations, and reservation thereof.

WARRANTY VOID IF REGISTRATION IS NOT RECEIVED OR RECORDED ONLINE WITHIN 30 DAYS OF PURCHASE DATE OR SHIP DATE, WHICHEVER IS LATER.

REGISTRATION

Item_____Model # _____ Purchase Date_____/_____/_____

Purchased From: _____Gift ☐ Inv#/Order# _____

Owner Name: _____ Serial # (if Applicable)_____

Owner Address: _____

City: _____ County: _____ ST: _____ Zip Code: _____

Phone: _____ Email: _____

Acceptance of responsibility:
I (Purchaser) have read operators manual and Limited Warranty or someone has read/and explained all instructions to me. I understand this warranty does not cover any labor and that all disputes will be settled by binding arbitration. Binding arbitration is conducted by the Better Business Bureau (BBB) located at 4004 SW Kruse Way Place Ste 375 Lake Oswego OR 97035 or the current BBB location closest to Betst Products, I acknowledge my Limited Warranty is void if any attempt to repair or replace defective parts has been made by unauthorized personnel. I acknowledge receipt of my Operators Manual and have read the Safe Operation Section. I acknowledge understanding maintenance and safe operation requirements, item specifications, operation, controls, and storage requirements. **I understand that I alone am responsible for proper maintenance, care and safe operation of this Pow'R'kraft item.**

___ Received and read Operators Manual, Specifically Safe Operation Section. ___ Specifications Accepted

___ Controls Understood ___Maintenance Requirements Understood ___ Proper Storage Understood

I (Purchaser) agree that persons not familiar with the operation of this item should not be allowed to use it. Children especially should not operate or be near Power Products when in use. ANYONE OPERATING POW'R'KRAFT PRODUCTS SHOULD HAVE READ OPERATIONS MANUALS AND SAFETY MANUALS.

Owners Signature: x _____ Date: ___/___/___

You must sign this warranty and mail or fax copy to Betst Products, 83371 Melton Rd N.#3, Creswell OR 97426. If you prefer you may complete your registration on line at www.PowRkraft.com. This warranty is not effective unless the Purchaser completes Registration and Warranty Form within 30 days of purchase date or ship date whichever is later.

Fax to 1-904-216-2059

NOTE: We may refuse warranty of any kind unless Betst Product, llc., receives a completed, legible and signed warranty registration. It is the responsibility of the purchaser to assure that registration document is received by Betst Products, llc..

Fax to 1-904-216-2059

2 YEAR EXTENDED WARRANTY & REGISTRATION

Pow'R'Kraft

Branded Products

2 YEAR EXTENDED WARRANTY

2 Year Extended Warranty amends to original Recorded Warranty Registration the time period of described coverage. Extended Warranty does not apply to Consumable and Expendable Items as described in Product Warranty Registration.

This Amendment does not affect any other part of recorded Warranty Registration or Policy.

No one is authorized to alter, modify, or enlarge this Amendment to original recorded warranty registration.

EXTENDED REGISTRATION & PAYMENT MUST BE RECEIVED WITHIN 30 DAYS OF PURCHASE DATE

EXTENDED WARRANTY REGISTRATION

Product & Model # : _____
Serial #: _____ if applicable
Owner Name: _____
Sellers Invoice/Order # _____

Acceptance of responsibility:
I (Purchaser) have Read and understand the Extended Warranty or someone has read/and explained all the above to me. I understand this extended warranty does not cover any labor. I have filed my Original Warranty Registration and fully understand my requirements. **I understand that I alone am responsible for proper maintenance, care and safe operation of this tractor implement.**
I (purchaser) also understand that persons not familiar with the operation of this equipment should not be allowed to use it. Children especially should not operate or be near equipment. ANYONE OPERATING EQUIPMENT SHOULD HAVE READ ALL EQUIPMENT OPERATIONS MANUALS AND SAFETY MANUALS..

Owners Signature: x _____
Date: _____

You must sign this extended warranty and Fax to 1-305-397-1780 or mail copy to Betst Products, 83371 Melton Rd N.#3, Creswell OR 97426. This extended warranty is not effective unless the Purchaser faxes or mails this Registration Form within 30 days of purchase. NOTE: The Manufacturer may refuse warranty of any kind unless Betst Products receives a completed, legible and signed extended warranty registration. It is the responsibility of the purchaser to assure that this registration document is received by Betst Products.

To determine Payment for Extended Warranty Call: 1-877-876-7895 or visit www.PowRkraft.com