

CHAMPION

POWER EQUIPMENT™

OWNER'S MANUAL AND OPERATING INSTRUCTIONS



22 Ton LOG SPLITTER

POWERED BY HONDA™



MODEL NUMBER

92252

SAVE THESE INSTRUCTIONS
Important Safety Instructions
are included in this manual.

MADE IN CHINA
REV 92252-20120524

10006 Santa Fe Springs Road
Santa Fe Springs CA 90670
USA / 1-877-338-0999
www.championpowerequipment.com

Have questions or need assistance?

Do not return this product to the store!

WE ARE HERE TO HELP!

Visit our website:

www.championpowerequipment.com

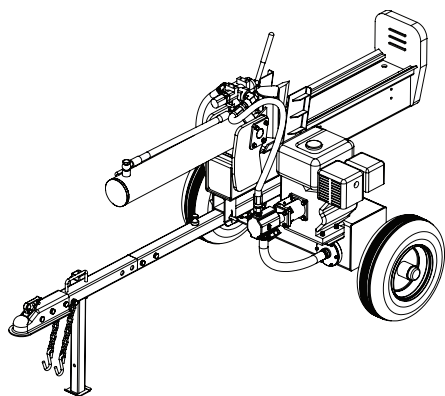
for more info:

- Product Info & Updates
- Tech Bulletins
- Frequently Asked Questions
- Product Registration

– or –

Call our Customer Care Team Toll-Free at:

1-877-338-0999



22 Ton LOG SPLITTER

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INTRODUCTION

Introduction

Congratulations on your purchase of a Champion Power Equipment log splitter. CPE designs and builds log splitters to strict specifications. With proper use and maintenance, this log splitter will bring years of satisfying service.

Portable Log Splitter

This unit is a gasoline engine driven hydraulic log splitter. It is designed to split wood logs for use as firewood for a stove or fireplace. This log splitter will only split logs lengthwise, with the grain only.

Accessories

Champion Power Equipment manufactures and sells accessories designed to help you get the most from your purchase. To find out more, please visit our website at:
→ www.championpowerequipment.com

This Booklet

Every effort has been made to ensure the accuracy and completeness of the information in this manual. We reserve the right to change, alter and/or improve the product and this document at any time without prior notice.

Record the model and serial numbers as well as date and place of purchase for future reference. Have this information available when ordering parts and when making technical or warranty inquiries.

Champion Power Equipment Support	
1-877-338-0999	
Model Number	
92252	
Serial Number	
Date of Purchase	
Purchase Location	
For Oil Type see "Add Engine Oil" section. For Fuel Type see "Add Fuel" section.	

This manual uses the following symbols to help differentiate between different kinds of information. The safety symbol is used with a key word to alert you to potential hazards in operating and owning power equipment.

Follow all safety messages to avoid or reduce the risk of serious injury or death.

 **DANGER**

DANGER indicates an imminently hazardous situation which, if not avoided, **will** result in death or serious injury.

 **WARNING**

WARNING indicates a potentially hazardous situation which, if not avoided, **could** result in death or serious injury.

 **CAUTION**

CAUTION indicates a potentially hazardous situation which, if not avoided, **may** result in minor or moderate injury.

CAUTION

CAUTION used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, **may** result in property damage.

 **NOTE**

If you have questions regarding your log splitter, we can help. Please call our help line at **1-877-338-0999**

SAFETY RULES

WARNING

Read this manual thoroughly before operating your log splitter. Failure to follow instructions could result in serious injury or death.

WARNING

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

DANGER

Log Splitter engine exhaust contains carbon monoxide, a colourless, odourless, poison gas. Breathing carbon monoxide will cause nausea, dizziness, fainting or death. If you start to feel dizzy or weak, get to fresh air immediately.

Operate log splitter outdoors only in a well ventilated area. DO NOT operate the log splitter inside any building, enclosure or compartment. DO NOT allow exhaust fumes to enter a confined area through windows, doors, vents or other openings. **DANGER CARBON MONOXIDE**, using a log splitter indoors **CAN KILL YOU IN MINUTES**.

DANGER

Rotating parts can entangle hands, feet, hair, clothing and/or accessories. Traumatic amputation or severe laceration can result.

Keep hands and feet away from rotating parts. Tie up long hair and remove jewellery. Operate equipment with guards in place. DO NOT wear loose-fitting clothing, dangling drawstrings or items that could become caught.

DANGER

Sparks can result in fire or electrical shock.

When servicing the engine:

Disconnect the spark plug wire and place it where it cannot contact the plug. DO NOT check for spark with the plug removed. Use only approved spark plug testers.

WARNING

Running engines produce heat. Severe burns can occur on contact. Combustible material can catch fire on contact.

DO NOT touch hot surfaces. Avoid contact with hot exhaust gases. Allow equipment to cool before touching. Maintain at least 91.4 cm (3 ft.) of clearance on all sides to ensure adequate cooling. Maintain at least 1.5 m (5 ft.) of clearance from combustible materials.

WARNING

Crush hazard

Wedge can cut through skin and break bones. Keep all limbs away from wedge and endplate.

WARNING

Projectile hazard

Pieces of log may be ejected from the splitter while operating. **Wear ANSI approved safety glasses when operating. Be alert.**

WARNING

Keep operator work zone clear

Keep work zone clear of debris while working to ensure safe footing.

⚠ DANGER

Skin injection hazard. High-pressure hydraulic oil can inject under your skin.

Make sure all fittings are tightly secure before applying pressure. Relieve system of pressure before servicing.

⚠ WARNING

Towing hazard

ALWAYS check all local and state regulations regarding towing, licensing and lights before towing your log splitter. Review towing safety warnings in your towing vehicle manual.

Drive safely. Be aware of the added length of the log splitter. NEVER ride or transport cargo on the log splitter. Choose a level surface to operate the log splitter.

**NEVER EXCEED MAX. Towing Speed
72 km/h (45 MPH)**

⚠ WARNING

Rapid retraction of the starter cord will pull hand and arm towards the engine faster than you can let go. Unintentional startup can result in entanglement, traumatic amputation or laceration. Broken bones, fractures, bruises or sprains could result.

When starting engine, pull the starter cord slowly until resistance is felt and then pull rapidly to avoid kickback.

⚠ CAUTION

Improper treatment or use of the log splitter can damage it, shorten its life and void your warranty.

Use the log splitter only for intended uses. Operate only on level surfaces. DO NOT expose log splitter to excessive moisture, dust, or dirt.

DO NOT allow any material to block the cooling slots. DO NOT use the engine if:

- Equipment sparks, smokes or emits flames
- Equipment vibrates excessively

⚠ DANGER

Fuel and fuel vapours are highly flammable and extremely explosive.

Fire or explosion can cause severe burns or death. Unintentional startup can result in entanglement, traumatic amputation or laceration.

When adding or removing fuel:

Turn the engine off and let it cool for at least two minutes before removing the fuel cap. Loosen the cap slowly to relieve pressure in the tank.

Only fill or drain fuel outdoors in a well-ventilated area. DO NOT pump gas directly into the log splitter at the gas station. Use an approved container to transfer the fuel to the log splitter.

DO NOT overfill the fuel tank.

Always keep fuel away from sparks, open flames, pilot lights, heat and other sources of ignition.

DO NOT light or smoke cigarettes.

When starting the engine:

DO NOT attempt to start a damaged engine.

Make certain that the gas cap, air filter, spark plug, fuel lines and exhaust system are properly in place.

Allow spilled fuel to evaporate fully before attempting to start the engine.

Make certain that the log splitter is resting firmly on level ground.

When operating the log splitter:

DO NOT move or tip the log splitter during operation.

DO NOT tip the log splitter or allow fuel or oil to spill.

Block the tires to prevent unintended movement.

When transporting or servicing the log splitter:

Make certain that the fuel shutoff valve is in the off position and the fuel tank is empty.

Disconnect the spark plug wire.

When storing the log splitter:

Store away from sparks, open flames, pilot lights, heat and other sources of ignition.

⚠ CAUTION

Parts of the hydraulic circuit (cylinder, pump, valve-body, hoses) can become very hot during operation.

SAFETY RULES

Training

1. Read the Operator's Manual completely before attempting to use this log splitter.
2. Do not allow anyone to operate your log splitter who has not read the Operator's Manual or has not been instructed on the safe use of the log splitter.
3. Never allow children or untrained adults to operate this machine.
4. Many accidents occur when more than one (1) person operates the log splitter. If a helper is assisting in loading logs to be split, never actuate controls until helper is clear of the area.
5. Never allow anyone to ride on the machine.
6. Never transport cargo on the log splitter.
7. High fluid pressures are developed in hydraulic log splitters. Pressurized hydraulic fluid escaping through a pin hole opening can puncture skin and cause severe blood poisoning. Therefore, the following instructions should be heeded at all times.
 - a. Do not operate the unit with frayed, kinked, cracked or damaged hoses, fittings, or tubing.
 - b. Stop the engine and relieve hydraulic system pressure before changing or adjusting fittings, hoses, tubing, or other system components.
 - c. Do not adjust the pressure settings of the pump or valve.
 - d. Do not check for leaks with your hand.
Leaks can be detected by passing cardboard or wood over the suspected area. Look for discoloration. If injured by escaping fluid, see a doctor at once. Serious infection or reaction can develop if proper medical treatment is not administered immediately.
8. Keep the operator zone and adjacent area clear for safe, secure footing.
9. If your log splitter is equipped with an internal-combustion engine and intended for use near any unimproved forest, brush, or grass covered land, the engine exhaust should be equipped with a spark arrestor. Make sure you comply with local, state, and federal codes. Take appropriate fire-fighting equipment with you.
10. Log splitters should be used only for splitting wood. Do not use for other purposes unless the manufacturer provides attachments and instructions.

Preparation

1. Be thoroughly familiar with all controls and with proper use of the equipment.
2. Safety Gear:
 - a. Always wear safety shoes or heavy boots when operating the machine.
 - b. Always wear safety glasses or goggles when operating the machine.
 - c. Never wear jewelry or loose-fitting clothing that might become entangled in moving or rotating parts of the machine.
3. Make sure the splitter is on a level surface. Block tires and ensure support leg is secure to prevent unintended movement of the log splitter during operation.
 - a. Always operate the splitter from the manufacturer's indicated operator zone.
4. Logs to be split on ram-type units should be cut as squarely as possible.
5. Fuel:
 - a. Use an approved fuel container.
 - b. Never add fuel to a running or hot engine.
 - c. Fill fuel tank outdoors with extreme care. Never fill fuel tank indoors.
 - d. Replace gasoline cap securely and clean up any spilled fuel.

Operation

1. Before starting this log splitter, review all safety rules. Failure to follow these rules may result in serious injury to the operator or bystanders.
2. Be sure to confirm all hose connections and hose clamps are tight before each use. It is possible for connections to vibrate loose over time.
3. Never leave the machine unattended with the power source operating.
4. Never operate the machine when under the influence of alcohol, drugs or medication.
5. The machine owner should instruct all operators in safe log splitter operation.
6. Always operate the log splitter with all safety equipment in place and all controls properly adjusted for safe operation.
7. Always operate the log splitter at manufacturer's recommended speed.
8. Always keep hands and feet clear of moving parts.
9. When loading a ram-type log splitter, place your hands on the sides of the log, not the ends. Never place your hands or any part of your body between a log and any part of the log splitter.
 - a. On ram-type log splitters, never attempt to split more than one (1) log at a time unless the ram has been fully extended and a second log is needed to complete the separation of the first log.
10. On ram-type log splitters on which the logs are not cut square, the longest portion of the log should be rotated down and the most square end placed against the ram.
11. Use only your hand to operate the log splitter controls.
12. Do not refuel the engine until it has cooled for several minutes.

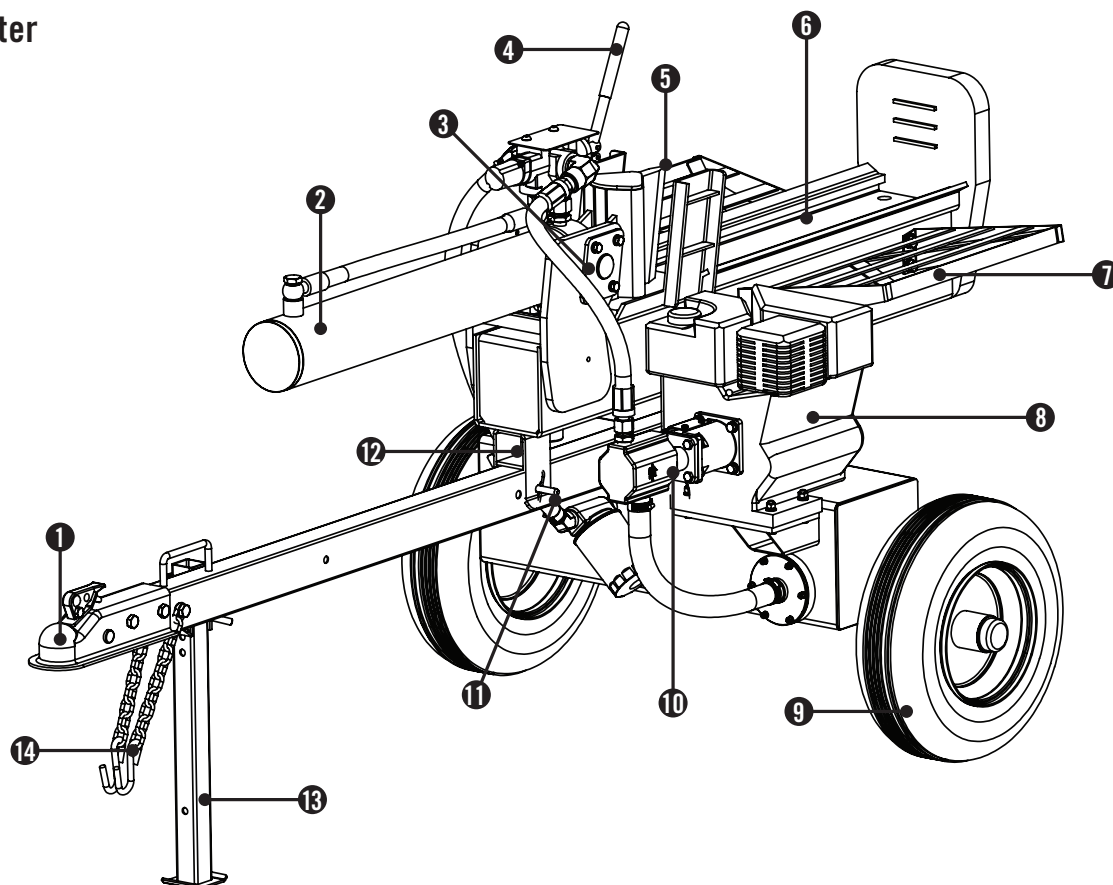
Maintenance and Storage

1. Always shut off the power source while repairing or adjusting the splitter except as recommended by the manufacturer.
2. Clean debris and chaff from the engine cylinder, cylinder head fins, blower house rotation screen, and muffler areas. If the engine is equipped with a spark arrestor muffler, clean and inspect it regularly (follow manufacturer's service instructions). Replace, if damaged.
3. Never store the unit indoors with fuel in the tank. Fumes might reach an open flame spark. Allow the engine to cool before storing in any enclosure.
4. Clear debris from moveable parts, but only when the power source is shut off.
5. Check to be sure all nuts and bolts are tight to assure the equipment is in safe working condition.

CONTROLS AND FEATURES

Read this owner's manual before operating your log splitter. Familiarize yourself with the location and function of the controls and features. Save this manual for future reference.

Log Splitter



- | | |
|---|--|
| <p>(1) 5 cm (2 in.) Ball Coupler – For towing the log splitter behind your vehicle.</p> <p>(2) Hydraulic Cylinder – Bore 10.2 cm (4 in.) x 57.5 cm (22.63 in.) stroke. Rated to 3500 psi.</p> <p>(3) Mounting Plates – Holds hydraulic cylinder in place.</p> <p>(4) Control Valve Handle – Controls the movement of the cutting wedge.</p> <p>(5) Wedge</p> <p>(6) Splitting Beam</p> <p>(7) Log Catchers</p> | <p>(8) Engine – Honda GX 200.</p> <p>(9) Tires – Maximum travel speed is 72 km/h (45 MPH).</p> <p>(10) Hydraulic Pump – Pumps hydraulic oil through the system.</p> <p>(11) Beam Lock Pin – Secures in either horizontal or vertical position.</p> <p>(12) Beam Bracket – Holds splitting beam in place.</p> <p>(13) Support Leg – Supports log splitter while operating. Raise leg for towing.</p> <p>(14) Safety Chains – For use while towing.</p> |
|---|--|

Your log splitter requires some assembly.

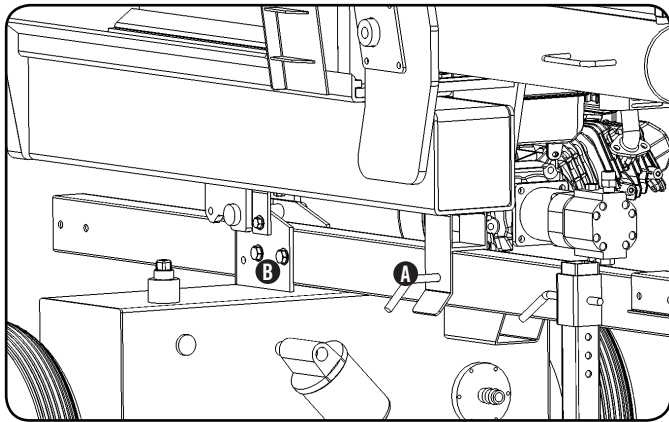
If you have any questions regarding the assembly of your log splitter, call our help line at **1-877-338-0999**. Please have your serial number and model number available.

Open Shipping Crate

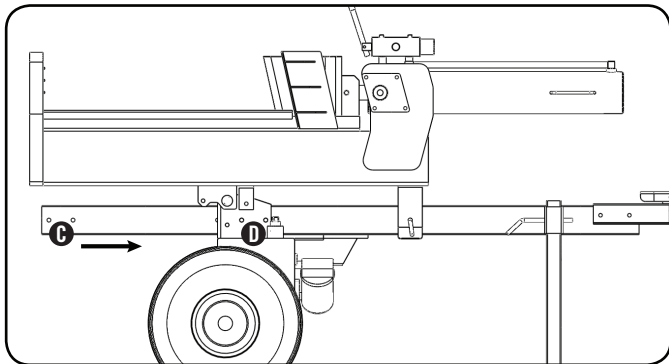
1. Set the shipping crate on a solid, flat surface.
2. Carefully cut the shipping bands and remove lid of shipping crate.
3. Locate all hardware before beginning assembly.

Assemble Tow Bar

1. Remove splitting beam lock pin that attaches beam to tow bar in horizontal position. (A)
2. Remove the 2 nuts and bolts that fasten the tow bar to the hydraulic oil tank. (B)

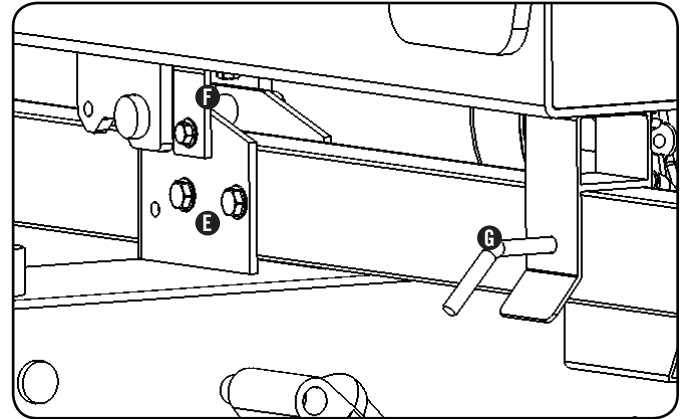


3. Slide the tow bar out to align the bolt holes (C) at the end of the tow bar with the mounting holes (D) on the the hydraulic tank.



Log Splitter Location Cont'd.

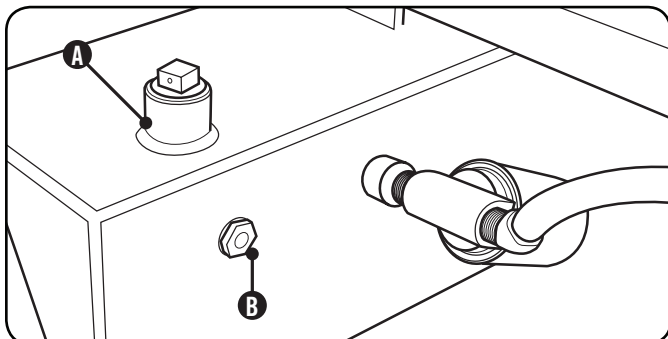
4. With the tow bar in extended position, replace 2 nuts and bolts removed in step 2 and tighten to 47.45 joules (35 ft-lb). (E)
5. Remove 2 bolts and shipping bracket fastened to the bottom of the splitting beam near the pivot (F). Discard shipping bracket and hardware.
6. Replace splitting beam lock pin removed in step 1 to secure beam in horizontal position. (G)



ASSEMBLY

Add Hydraulic Oil

1. Make sure the log splitter is on a flat, level surface.
2. Remove the oil plug from the oil tank. (A)
3. Add 18.9 L (5 gal.) of hydraulic oil - 10W AW32, ASLE H-150, or ISO 32 are all acceptable types of fluid.
4. Check the hydraulic oil level using the oil sight glass. Oil level should visibly fill the glass sight. (B)
5. Replace and tighten the oil plug and orient the vent hole away from the operator zone.



6. Start Engine. Extend and retract the wedge to purge air from the hydraulic system. When the wedge motion is smooth, the system is properly purged.
7. Check the hydraulic oil tank sight glass. Add approximately 3.78 L to 5.67 L (1 to 1.5 gallons) of hydraulic oil to bring the level back up to the sight glass.
8. Check oil level daily and add as needed.

WARNING

DO NOT remove the hydraulic oil fill cap when the engine is running or hot. Hot oil can escape causing severe burns. Always allow the log splitter to cool completely before removing the hydraulic oil cap.

High fluid pressure and temperatures are created in the hydraulic log splitters. Hydraulic fluid will escape through a pin-size hole opening and 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.

NOTE

When temperature is below 0°C (32°F) use universal tractor/transmission fluid.

Add Engine Oil

Refer to Honda Engine Owner's Manual for adding oil.

Add Engine Fuel

Refer to Honda Engine Owner's Manual for adding fuel.

Before Each Use Inspect the Log Splitter

1. Check the hydraulic oil level and visually inspect all hoses, attachments and cylinder for leaks, cracks, fraying or other damage.
2. DO NOT operate the log splitter if there is any indication of damage or oily residue.
3. Inspect the engine and make sure the oil level is correct before operating. If the engine is equipped with a spark arrestor, clean and inspect it regularly (follow spark arrestor maintenance schedule).
4. The tires need to be fully inflated and in good repair. Reference the tire sidewall for recommended tire pressure.

WARNING

DO NOT overinflate tires. Serious injury can result if tires explode.
DO NOT tow the log splitter if the tires are worn or will not hold air.
DO NOT exceed the maximum 72 km/h (45 MPH) towing speed.

Towing Log Splitter Safety

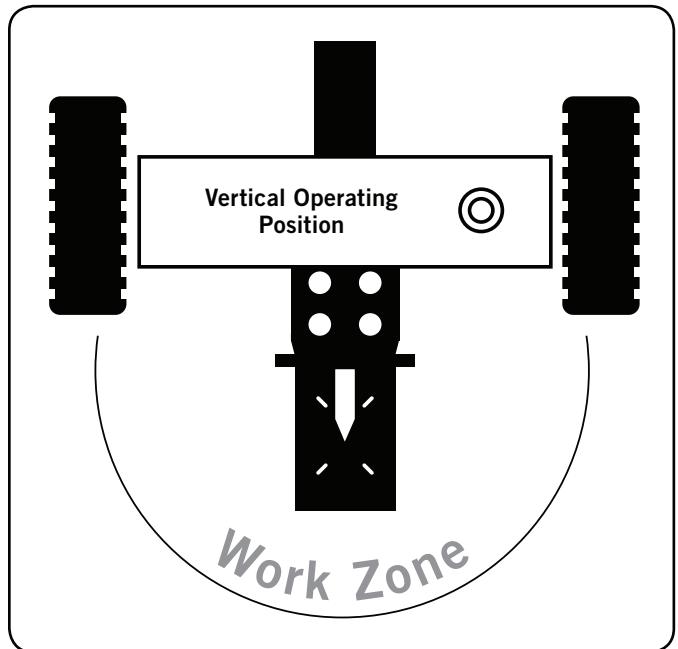
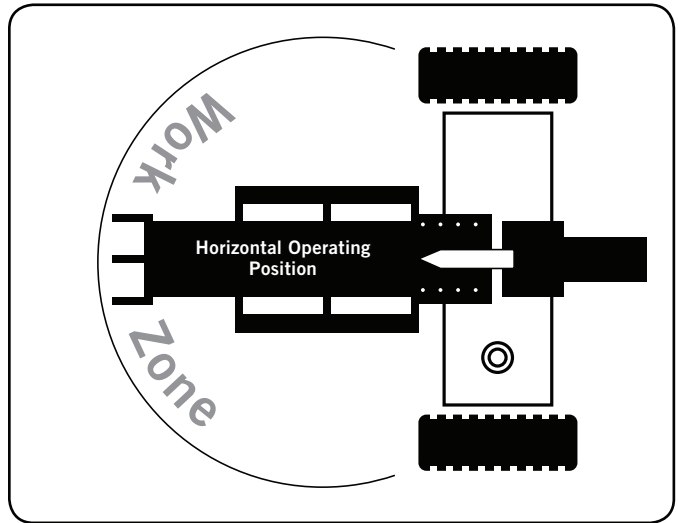
1. Always check local and state regulations regarding the requirements for towing, licensing and lights.
2. Before towing make sure the log splitter is correctly and securely attached to the vehicle and the safety chains attached with enough slack to allow for turning.
3. Never exceed the max. travel speed of 72 km/h (45 MPH). Towing the log splitter at speeds greater than 72 km/h (45 MPH) could result in serious injury or death. Always adjust your towing speed according to the terrain and conditions.
4. Always disconnect the log splitter from the towing vehicle before operating.

Log Splitter Location

This log splitter must have at least 2.1 m (7 ft.) of clearance from combustible material. Leave at least 91.4 cm (3 ft.) of clearance on all sides of the log splitter to allow for adequate cooling, maintenance and servicing. DO NOT place the log splitter near vents or intakes where engine exhaust fumes could be drawn into occupied or confined spaces. **Always operate the log splitter outdoors.** The log splitter needs to be on a dry, level surface with good footing. DO NOT work on mud, ice, tall grass, brush or snow.

Only operate log splitter from work zone shown below.

Log Splitter Location Cont'd.



NOTE

For Vertical Operation:

- Remove the beam lock-pin from the beam bracket
- Use handle on cylinder to rotate beam to vertical position
- Insert beam lock-pin in the pivot bracket

OPERATION

Log Splitter Location Cont'd.

WARNING

ALWAYS use the log splitter for its intended use. The log splitter should only be used to split wood logs, length wise with the grain.

NEVER modify, alter or change the log splitter in anyway. Modifications will void the warranty.

NEVER attach a rope, cable or other device to the control lever on the log splitter.

DO NOT modify or change the engine and operating speeds or pressure settings. These changes can cause safety issues.

ONLY operate the log splitter in daylight.

NEVER operate, or let anyone else operate, the log splitter while under the influence of alcohol, drugs, or medication.

NEVER leave the log splitter unattended while the engine is running.

DO NOT change the splitting position with the engine running. Contact with the muffler can cause serious burns.

Always make sure the beam is in the locked position. DO NOT let the beam drop as it could crush fingers or cause damage to the log splitter.

Starting the Engine

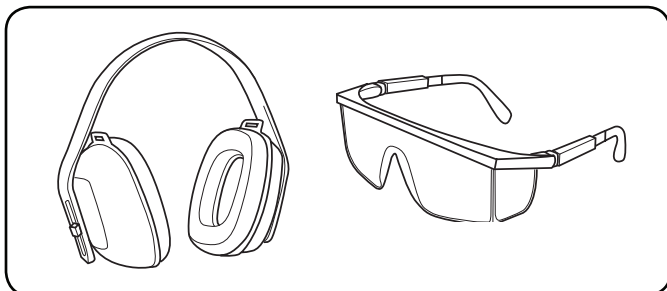
Refer to Honda Engine Owner's Manual.

Stopping the Engine

Refer to Honda Engine Owner's Manual.

Log Splitter Operation

1. ALWAYS wear ear and eye protection, protective clothing and safety gear.



2. Block tires and put both support legs in the DOWN position to prevent unintended movement of the log splitter during operation.
3. Set log splitter in either the horizontal or vertical position.

Log Splitter Operation Cont'd.

NOTE

HORIZONTAL position is used for lighter logs that can easily be loaded onto the beam.

VERTICAL position is used for light logs as well as heavy logs that are difficult to load onto the beam. Back injury can result from lifting logs onto the log splitter if proper lifting techniques are not used.

4. Load a log onto the beam against the end plate (MAX LOG LENGTH – 60.3 cm {23.75-in.}).
5. Make sure all limbs are clear of crush zones.
6. Push the control valve handle forward (towards the end plate) to split the log.
7. Push the auto control valve handle backward to return the wedge to its original position.
8. Clear the split wood from the work zone.

CAUTION

Do not hold auto control valve in return position. It will damage the stop block or beam.

NOTE

It is normal for the hydraulic fluid to become foamy or frothy during operation.

NOTE

If a log gets stuck, embedded or will not split completely, push the control handle in the reverse direction and allow the splitter to strip the log from the wedge.

ALWAYS keep hands clear of the log and wedge while it is retracting.

NOTE

The cylinder stroke is designed so the wedge stops approximately 3.81 cm (1.5 in.) from the end plate.

The owner/operator is responsible for all periodic maintenance.

WARNING

Never operate a damaged or defective log splitter.

WARNING

Improper maintenance will void your warranty.

NOTE

For service or parts assistance, contact our help line at **1-877-338-0999**.

Complete all scheduled maintenance in a timely manner. Correct any issue before operating the log splitter.

Engine Maintenance

Refer to Honda Engine Owner's Manual.

Log Splitter Maintenance

Make certain that the log splitter is kept clean and stored properly. Only operate the unit on a flat, level surface in a clean, dry operating environment. DO NOT expose the unit to extreme conditions, excessive dust, dirt, moisture or corrosive vapours.

Inspect all air vents and cooling slots to ensure that they are clean and unobstructed.

Check and tighten all bolts and nuts before operating the log splitter.

Be sure to confirm all hose connections and hose clamps are tight before each use. It is possible for connections to vibrate loose over time.

Changing the Hydraulic Oil and Oil Filter

NOTE

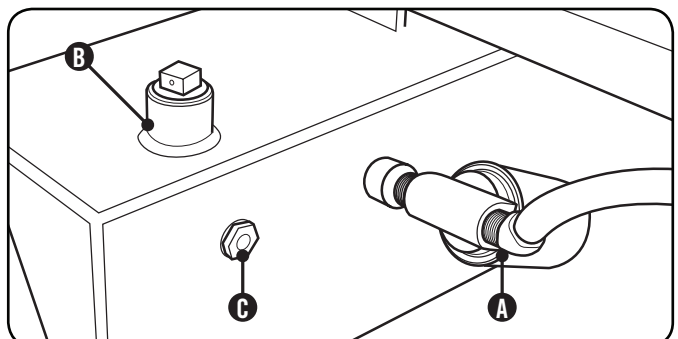
Install a new hydraulic oil filter each time the hydraulic oil is changed

1. Begin with the cylinder retracted and the engine "OFF."
2. Turn the fuel valve "OFF."
3. Release any stored pressure by moving the valve lever forward and backward several times.
4. Place a container under the hydraulic tank. Make sure it is large enough to hold the contents of the tank.
5. To drain the oil, unscrew and remove the tank drain plug on the bottom of the hydraulic tank.
 - a. Unscrew and remove the hydraulic oil filter.
 - b. Drain any oil in the filter into the container.
6. Allow oil to completely drain from the tank into the container.
7. Install a new hydraulic oil filter. (A)
 - a. Turn the filter counter-clockwise to remove it. A strap wrench may be used.
 - b. Lubricate the gasket of the new filter with a thin film of clean oil.
 - c. Screw the new filter on clockwise. Tighten $\frac{3}{4}$ to 1 turn after the gasket makes contact.
8. Reinsert and screw in the tank drain plug. Tighten, but do not overtighten.

NOTE

The drain plug is sealed with Teflon tape. Add 2-3 wraps of new Teflon tape as needed when replacing the drain plug to prevent oil leak

9. Unscrew and remove the tank fill plug, on top of the tank. Using a funnel add approximately 18.9 L (5 gal.) of hydraulic oil to the tank. Wipe up any spilled oil. (B)



MAINTENANCE AND STORAGE

Changing the Hydraulic Oil and Oil Filter Cont'd.

10. Turn the fuel valve on, and start the engine. Purge the air from the system by extending and retracting the wedge several times until the motion is smooth.
11. Check the hydraulic oil level using the sight glass. Add 3.79 to 5.69 L (1 to 1.5 gal.) of hydraulic oil, so the oil level is visible in the sight glass. (C)
12. Dispose of used oil at approved recycling locations.

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

NOTE

Change the hydraulic oil filter after the first 50 hours of use. Then every 100 hours or seasonally.

NOTE

Replacement filters can be purchased from Champion Power Equipment by calling 1-877-338-0999. Wix #51391 or Fram PH3682 can also be used if needed.

Cleaning

CAUTION

DO NOT use a garden hose to clean the engine or log splitter.

Water can contaminate the fuel system and can enter the engine through the cooling slots and damage the engine.

Clear the debris from the beam, wedge and endplate. Use a damp cloth to clean exterior surfaces of the engine and log splitter.

Use a soft bristle brush to remove excess dirt and oil. Use an air compressor (25 PSI) to clear dirt and small debris. Wipe all metal parts with an oily rag to help prevent rust and corrosion.

Maintenance Schedule

Follow the service intervals indicated in the schedule below. Service your log splitter more frequently when operating in adverse conditions. Contact our help line at **1-877-338-0999** to locate the nearest Champion Power Equipment authorized service dealer for your log splitter or engine maintenance needs.

Every 8 hours or daily	
	Check hydraulic oil levels
Every 100 hours or every season	
	Change hydraulic oil
	Change hydraulic oil filter
Every Year	
	Inspect wheel bearings and repack bearing grease as needed.
Engine and Fuel Maintenance	
	Refer to Honda Engine Owner's Manual.

Storage

Log Splitter Storage

1. The log splitter needs to be cool for at least 5 minutes before storing.
2. Clean the log splitter before storage according to the Maintenance section.
3. Retract the wedge to protect the rod from corrosion.
4. Wipe the beam and wedge with an oily rag to prevent rust and corrosion.

WARNING

Never store the log splitter inside next to appliances where there is a source of heat or open flame, spark or pilot light because they can ignite gasoline vapours.

DO NOT store a log splitter near fertilizer or any corrosive material.

Even with an empty gas tank, gasoline vapours could ignite.

Log Splitter Specifications

- Ram Force 22 Ton
- Max Cycle Time 14 seconds
- Hydraulic Tank Capacity 18.9 L (5 gal.)
- Max Log Length 60.3 cm (23.75-in.)
- Max Log Weight 45 kg (100 lb.)
- Coupler Ball Size 5 cm (2 in.)
- Tire Size 40.6 cm (16 in.)
- Max towing speed 72 km/h (45 MPH)
- Engine Honda GX 200
- Cylinder size . . 10.2 cm x 57.5 cm (4 in. x 22.63 in.)
- Cylinder rod size 4 cm (1.57 in.)
- Hydraulic Fluid Type 10W AW32,
ASLE H-150, ISO 32
- Gear Pump 2-stage
- Max pressure 3500 psi
- Max flow capacity 41.6 LPM (11 GPM)
- Control Valve Detent (auto-return)
- **Overall Dimensions**
- Gross Weight 220 kg (485 lb.)
- Net Weight 180 kg (396.8 lb.)
- Height 116.5 cm (45.87 in.)
- Width 103.5 cm (40.75 in.)
- Length 218 cm (85.83 in.)

Hydraulic Oil System

Oil capacity is 24.6 L (6.5 gallons).

Use types 10W AW32, ASLE H-150, ISO32 or universal hydraulic fluid.

Spin-On Filter – 15 GPM, 10 Micron, ¾-16 Thread.

NOTE

When temperature is below 0°C (32°F) use universal tractor/transmission fluid.

Engine Specifications

Refer to Honda Engine Owner's Manual.

Engine Fuel

Refer to Honda Engine Owner's Manual for adding fuel.

Engine Oil

Refer to Honda Engine Owner's Manual for adding oil.

Spark Plugs

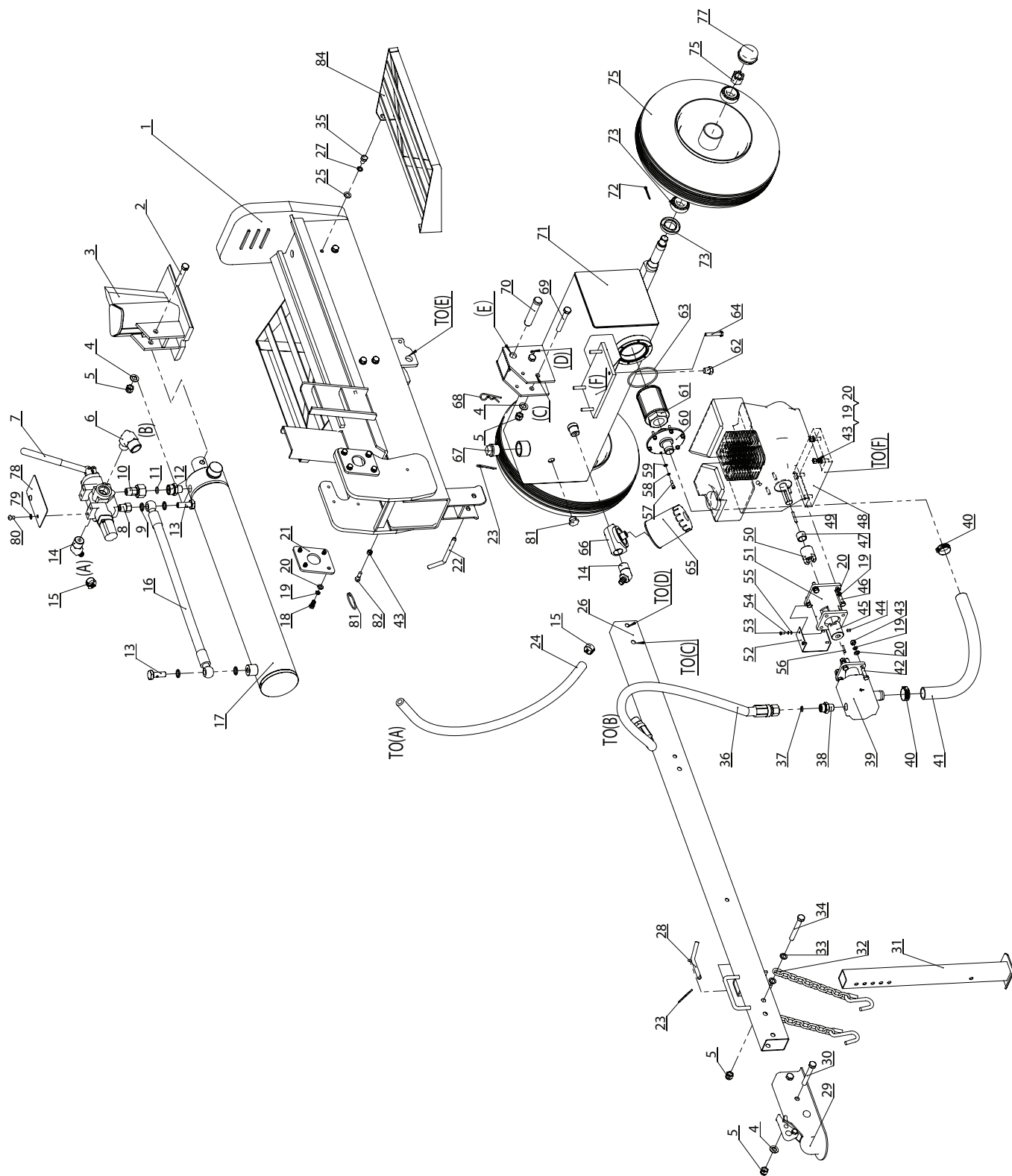
Refer to Honda Engine Owner's Manual.

Maintenance Valve Clearance

Refer to Honda Engine Owner's Manual.

SPECIFICATIONS

Parts Diagram



#	Part Number	Description	Qty
1	PMJ22H-02-00	Beam	1
2	GB/T-5782-2000-M12-75	Bolt M12×75(12.9)	1
3	PMJ22J-04-00	Wedge Slide	1
4	GB90-W-12	Washer 12	5
5	GB/T-889.1-2000-M12	Lock Nut M12	6
6	PMJ22G-51	Filter Housing "IN" Connection	1
7	PMJ22J-12	Control Valve	1
8	PMJ22G-24	Valve Joiner	1
9	JB-982-1977-14	Combination Washer 14	4
10	PMJ22G-25	Valve Joiner	1
11	GB/T-3452.1-92-14-2.65	"O" Ring 14×2.65	1
12	PMJ22G-22	Front Cover Connector	1
13	PMJ22G-23	Bolt Connector	2
14	PMJ22G-49	Filter Housing "OUT" Connection	2
15	JB/T-8870-1999-25	Clamp d25	2
16	PMJ22G-16	Hydraulic Hose(Valve-Cylinder)	1
17	PMJ22J-08-00	Cylinder	1
18	GB5781-B8-20	Bolt M8×20	8
19	GB93-LW-8	Lock Washer 8	20
20	GB90-W-8	Washer 8	20
21	PMJ22J-03	Cylinder Fixing Plate	2
22	PMJ22J-15	Pin	1
23	PMJ22G-30	R Pin	2
24	PMJ22G-15	Hydraulic Hose(Valve-Oil Tank)	1
25	GB90-W-10	Washer 10	8
26	PMJ22H-01-00	Tow Bar	1
27	GB93-LW-10	Lock washer 10	8
28	PMJ22J-10	Pin	1
29	PMJ22G-40	2" Coupler	1
30	GB/T-5782-2000-M12-80	Bolt M12×80	2
31	PMJ22J-07-00	Front Support Leg	1
32	PMJ22G-41	Safety Chain With Hook	2
33	GB90-W-12	Washer 12	4
34	GB/T-5782-2000-M12-90	Bolt M12×90	1
35	GB/T-5781-2000-M10-15	Bolt M10×15	8
36	PMJ22J-18	Hydraulic Hose(Valve-Pump)	1
37	GB/T-3452.1-92-10-2.65	"O" Ring 10×2.65	1
38	PMJ22G-21	Outlet Connector Of Pump	1
39	PMJ22J-14	Gear Pump	1
40	JB/T-8870-1999-40	Clamp d40	2
41	PMJ22G-17	Oil Pipe	1
42	GB5781-B8-30	Bolt M8×30	4

#	Part Number	Description	Qty
43	GB41-N-8	Nut M8	9
44	GB1667-S6-10	Screw M6×10	1
45	PMJ22G-26	Gear Pump Connector	1
46	ASME-B18.2.1-1996	Bolt 5/16"-24×1"	4
47	PMJ22G-29	Engine Bushing	1
48	PMJ22G-196CC-G10	Engine	1
49	GB/T-1096-1979	Flat Key	1
50	PMJ22G-28	Engine Connector	1
51	PMJ22G-27	Gear Pump Stand	1
52	PMJ22G-32	Connector Cover	1
53	GB/T-845C-1985	Tapping Screw	4
54	GB93-LW-4	Lock Washer 4	4
55	GB90-W-4	Washer 4	4
56	GB/T-1096-1979	Flat Key	1
57	GB1667-S5-20	Screw M5×20	6
58	GB93-LW-5	Lock Washer 5	6
59	GB90-W-5	Washer 5	6
60	PMJ22G-07-00	Filter Fix Plate	1
61	PMJ22G-44	Filter	1
62	PMJ22G-19	Oil Plug	1
63	GB/T-3452.1-92-80-3.55	"O" Ring 80×3.55	1
64	GB/T-5782-2000-M8-45	Bolt M8×45	4
65	PMJ22G-52	Auto Filter	1
66	PMJ22G-50	Auto Filter Base	1
67	PMJ22G-18	Screw NPT1"	1
68	GJY12-3	R Pin	1
69	GB/T-5782-2000-M12-85	Bolt M12×85	2
70	PMJ22G-12	Hinge Pin	1
71	PMJ22H-11-00	Oil Tank	1
72	GB/T-91-2000-CP4-32	Cotter Pin 4×32	2
73	PMJ22J-05-01	Cased Seal	2
74	L44634-LYC-DS	Tapered Bearing	4
75	PMJ22J-05-03	Wheel	2
76	GB/T-6181-86-M20-1.5	Slotted Nut M20x1.5	2
77	PMJ22J-05-02	Axle Cap	2
78	PMJ22J-19	Plate	1
79	GB90-W-8	Washer 8	2
80	GB5781-B8-12	Bolt M8x12	2
81	PMJ22G-38	Big Tension Spring	1
82	GB/T-798-1988-M8-28	Swing Bolt M8x28	1
83	GB-1160.2-89	Oil Scale	1
84	PMJ22F-01	Log Catcher	2

TROUBLESHOOTING

Problem	Cause	Solution
Wedge movement is slow or erratic.	Air in the hydraulic oil system.	Purge air by extending and retracting the wedge several times until motion is smooth.
	Debris lodged in beam guides.	Clear debris from beam.
	Low hydraulic oil.	Check oil level and add as needed.
Oil leak from hose connection.	Loose hose clamp or hydraulic fitting.	Tighten hose clamp or hydraulic fitting.
Oil leak from cylinder.	Faulty cylinder rod seal.	Contact Customer Service.
	Scored or bent cylinder rod.	Contact Customer Service.
	Loose hydraulic fitting.	Tighten hydraulic fitting.
	Faulty combination washer seal on cylinder hydraulic fitting.	Contact Customer Service.
Wedge will not extend or retract.	Faulty control valve.	Contact Customer Service.
	Faulty hydraulic pump.	Contact Customer Service.
	Low hydraulic oil.	Check oil level and add as needed.
Wedge does not Auto-Return.	Low hydraulic oil.	Check oil level and add as needed.
	Faulty control valve.	Contact Customer Service.
Excessive bouncing while towing.	Under-inflated tires.	Inflate tires to proper pressure. Refer to tire sidewall.

For further technical support:

Technical Service

Mon – Fri 8:30 AM – 5:00 PM (PST/PDT)

Toll Free: 1-877-338-0999

tech@championpowerequipment.com

WARRANTY**CHAMPION POWER EQUIPMENT
1-YEAR LIMITED WARRANTY****Warranty Qualifications**

Champion Power Equipment (CPE) will register this warranty upon receipt of your Warranty Registration Card and a copy of your sales receipt from one of CPE's retail locations as proof of purchase.

Please submit your warranty registration and your proof of purchase within ten (10) days of the date of purchase.

Repair/Replacement Warranty

CPE warrants to the original purchaser that the mechanical and electrical components will be free of defects in material and workmanship for a period of one (1) year from the original date of purchase (90 days for commercial and industrial use). Transportation charges on product submitted for repair or replacement under this warranty are the sole responsibility of the purchaser. This warranty only applies to the original purchaser and is not transferable.

Do Not Return The Unit To The Place Of Purchase

Contact CPE's Technical Service and CPE will troubleshoot any issue via phone or e-mail. If the problem is not corrected by this method, CPE will, at its option, authorize evaluation, repair or replacement of the defective part or component at a CPE Service Centre. CPE will provide you with a case number for warranty service. Please keep it for future reference. Repairs or replacements without prior authorization, or at an unauthorized repair facility, will not be covered by this warranty.

Warranty Exclusions

This warranty does not cover the following repairs and equipment:

Normal Wear

Log Splitter needs periodic parts and service to perform well. This warranty does not cover repair when normal use has exhausted the life of a part or the equipment as a whole.

Installation, Use and Maintenance

This warranty will not apply to parts and/or labour if this log splitter is deemed to have been misused, neglected, involved in an accident, abused, loaded beyond its limits, modified, and installed improperly. Normal maintenance such as spark plugs, air filters, adjustments, fuel system cleaning and obstruction due to buildup is not covered by this warranty.

Other Exclusions

This warranty excludes:

- Cosmetic defects such as paint, decals, etc.
- Wear items such as filter elements, o-rings, etc.
- Accessory parts such as starting batteries, and storage covers.
- Failures to due acts of God and other force majeure events beyond the manufacturer's control.
- Problems caused by parts that are not original Champion Power Equipment parts.

Limits of Implied Warranty and Consequential Damage

Champion Power Equipment disclaims any obligation to cover any loss of time, use of this product, freight, or any incidental or consequential claim by anyone from using this log splitter. **THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.**

A unit provided as an exchange will be subject to the warranty of the original unit. The length of the warranty governing the exchanged unit will remain calculated by reference to the purchase date of the original unit.

This warranty gives you certain legal rights which may change from state to state or province to province. Your state or province may also have other rights you may be entitled to that are not listed within this warranty.

Contact Information**Address**

Champion Power Equipment, Inc.
Customer Service
10006 Santa Fe Springs Rd.
Santa Fe Springs, CA 90670
www.championpowerequipment.com

Customer Service

Mon – Fri 8:30 AM – 5:00 PM (PST/PDT)
Toll Free: 1-877-338-0999
Fax no.: 1-562-236-9429

Technical Service

Mon – Fri 8:30 AM – 5:00 PM (PST/PDT)
Toll Free: 1-877-338-0999
tech@championpowerequipment.com

For Engine warranty and technical service

Refer to Honda Engine Owner's Manual.

**Champion Power Equipment, Inc (CPE),
Emission Control System Warranty**

Your Champion Power Equipment (CPE) engine complies with Environment Canada (EC) emission regulations.

YOUR WARRANTY RIGHTS AND OBLIGATIONS:

CPE is pleased to explain the Emission Control Systems Warranty on your 2012 small off-road engine. New engines must be designed, built and equipped, at the time of sale, to meet EC regulations for small non-road engines. CPE must warrant the emission control system on your small off-road engine for the period of time listed below, provided there has been no abuse, neglect, unapproved modification, or improper maintenance of your small off-road engine.

Your emission control system may include parts such as the carburetor, fuel-injection system, the ignition system, catalytic converter and fuel lines. Also included may be hoses, belts, connectors and other emission related assemblies. Where a warrantable condition exists, CPE will repair your small off-road engine at no cost to you including diagnosis, parts and labour.

MANUFACTURER'S EMISSION CONTROL SYSTEM WARRANTY COVERAGE:

This emission control system is warranted for two years, subject to provisions set forth below. If, during the warranty period, emission related part on your engine is defective in materials or workmanship, the part will be repaired or replaced by CPE.

OWNER WARRANTY RESPONSIBILITIES:

As the small off-road engine owner, you are responsible for the performance of the required maintenance listed in your Owner's Manual. CPE recommends that you retain all your receipts covering maintenance on your small off-road engine, but CPE cannot deny warranty solely for the lack of receipts or for your failure to ensure the performance of all scheduled maintenance.

As the small off-road engine owner, you should however be aware that CPE may deny you warranty coverage if your small, off-road engine or a part has failed due to abuse, neglect, improper maintenance or unapproved modifications.

You are responsible for presenting your small off-road engine to an Authorized CPE service outlet, CPE dealer or CPE, Santa Fe Springs, CA., USA as soon as a problem exists. The warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days.

If you have any questions regarding your warranty rights and responsibilities, you should contact:

Champion Power Equipment, Inc.
Customer Service
10006 Santa Fe Springs Road
Santa Fe Springs, CA 90670
USA
Tel: 1-877-338-0999

The emission warranty is a defects warranty. Defects are judged on normal engine performance. The warranty is not related to an in-use emission test.

EMISSION CONTROL SYSTEM WARRANTY

The following are specific provisions relative to your Emission Control System Warranty Coverage.

Emission Control System Warranty (ECS Warranty):

1. APPLICABILITY: The ECS Warranty Period shall begin on the date the new engine or equipment is delivered to its original, end-use purchaser, and shall continue for 24 consecutive months thereafter.

2. GENERAL EMISSIONS WARRANTY COVERAGE

CPE warrants to the original, end-use purchaser of the new engine or equipment and to each subsequent purchaser that each of its small off-road engines is:

a. Designed, built and equipped so as to conform at the time of sale with applicable regulations under the Canadian Environmental Protection Act, 1999 (CEPA 1999).

b. Free from defects in materials and workmanship that cause the failure of a warranted part to be identical in all material respects to the part as described in the engine manufacturer's application for certification for a period of two years.

3. THE WARRANTY ON EMISSION-RELATED PARTS WILL BE INTERPRETED AS FOLLOWS:

a. Any warranted part that is not scheduled for replacement as required maintenance in the Owners Manual shall be warranted for the ECS Warranty Period. If any such part fails during the ECS Warranty Period, it shall be repaired or replaced by CPE according to Subsection "d" below. Any such part repaired or replaced under the ECS Warranty shall be warranted for any remainder of the ECS Warranty Period.

b. Any warranted, emissions-related part which is scheduled only for regular inspection as specified in the Owners Manual shall be warranted for the ECS Warranty Period. A statement in such written instructions to the effect of "repair or replace as necessary", shall not reduce the ECS Warranty Period. Any such part repaired or replaced under the ECS Warranty shall be warranted for the remainder of the ECS Warranty Period.

c. Any warranted, emissions-related part which is scheduled for replacement as required maintenance in the Owner's Manual shall be warranted for the period of time prior to the first scheduled replacement point for that part. If the part fails prior to the first scheduled replacement, the part shall be repaired or replaced by CPE according to Subsection "d" below. Any such emissions-related part repaired or replaced under the ECS Warranty, shall be warranted for the remainder of the ECS Warranty Period prior to the first scheduled replacement point for such emissions-related part.

d. Repair or replacement of any warranted, emissions-related part under this ECS Warranty shall be performed at no charge to the owner at a CPE Authorized Service Outlet.

e. The owner shall not be charged for diagnostic labour which leads to the determination that a part covered by the ECS Warranty is in fact defective, provided that such diagnostic work is performed at a CPE Authorized Service Outlet.

f. CPE shall be liable for damages to other original engine components or approved modifications proximately caused by a failure under warranty of an emission-related part covered by the ECS Warranty.

g. Throughout the ECS Warranty Period, CPE shall maintain a supply of warranted emission-related parts sufficient to meet the expected demand for such emission-related parts.

h. Any CPE Authorized and approved emission-related replacement part may be used in the performance of any ECS Warranty maintenance or repair and will be provided without charge to the owner. Such use shall not reduce CPE's warranty obligation.

i. Unapproved add-on or modified parts may not be used to modify or repair a CPE engine. Such use voids this ECS Warranty and shall be sufficient grounds for disallowing an ECS Warranty claim. CPE shall not be liable hereunder for failures of any warranted parts of a CPE engine caused by the use of such an unapproved add-on or modified part.

EMISSION-RELATED PARTS INCLUDE THE FOLLOWING: (using those portions of the list applicable to the engine)

Systems Covered By This Warranty	Parts Description
Fuel Metering System	Fuel regulator, carburetor and internal parts
Air Induction System	Air cleaner, intake manifold
Ignition System	Spark plug and parts, magneto ignition system
Exhaust System	Exhaust manifold, catalytic converter
Miscellaneous Parts	Tubing, fittings, seals, gaskets, and clamps associated with these listed systems.

TO OBTAIN WARRANTY SERVICE:

You must take your CPE engine or the product on which it is installed, along with your warranty registration card or other proof of original purchase date, at your expense, to any Champion Power Equipment dealer who is authorized by Champion Power Equipment, Inc. to sell and service that CPE product during his normal business hours. Claims for repair or adjustment found to be caused solely by defects in material or workmanship will not be denied because the engine was not properly maintained and used.

If you have any questions regarding your warranty rights and responsibilities, or to obtain warranty service, please write or call Customer Service at Champion Power Equipment, Inc.

**Champion Power Equipment, Inc.
10006 Santa Fe Springs Road
Santa Fe Springs, CA 90670
USA
1-877-338-0999
Attn: Customer Service**