

OWNER'S MANUAL AND OPERATING INSTRUCTIONS



30 Ton LOG SPLITTER



MODEL NUMBER 93051

SAVE THESE INSTRUCTIONS

Important Safety Instructions are included in this manual.

MADE IN CHINA REV 93051-20160928 10006 Santa Fe Springs Road Santa Fe Springs CA 90670 USA / 1-877-338-0999 www.championpowerequipment.com

AN IMPORTANT MESSAGE ABOUT TEMPERATURE:

Your Champion Power Equipment product is designed and rated for continuous operation at ambient temperatures up to 40°C (104°F). When your product is needed your product may be operated at temperatures ranging from -15°C (5°F) to 50°C (122°F) for short periods. If the product is exposed to temperatures outside this range during storage, it should be brought back within this range before operation. In any event, the product must always be operated outdoors, in a well-ventilated area and away from doors, windows and other vents.

Have questions or need assistance?

Do not return this product to the store!

WE ARE HERE TO HELP!

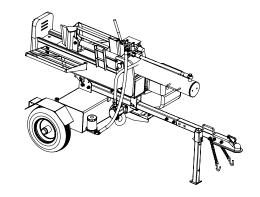
Visit our website: www.championpowerequipment.com for more info:

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

– or –

Call our Customer Care Team Toll-Free at:

1-877-338-0999



30 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.



MANUAL CONVENTIONS

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 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

↑ 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.

\land 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.

A 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

A 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

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, valvebody, 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 sever 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 discolouration. 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 internalcombustion 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

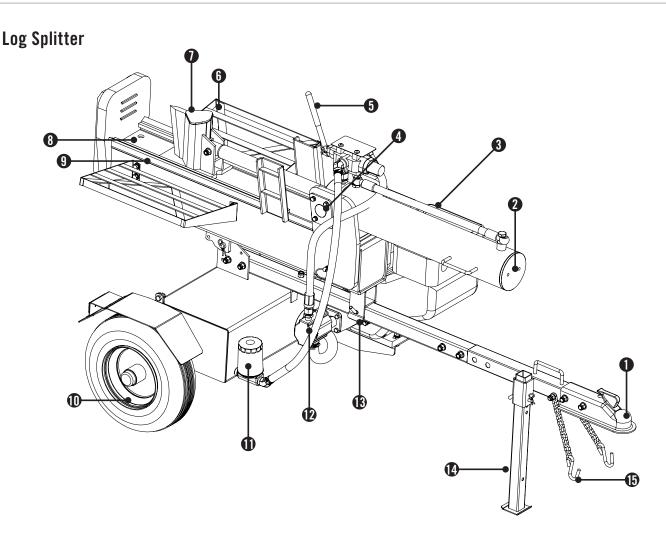
- 1. Before starting this log splitter, review all safety rules. Failure to follow these rules may result in serious injury to the operator or bystanders.
- 2. Be sure to confirm all hose connections and hose clamps are tight before each use. It is possible for connections to vibrate loose over time.
- 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.



- (1) 2-in. (5.1 cm) Ball Coupler – For towing the log splitter behind your vehicle.
- **Hydraulic Cylinder** Converts hydraulic pressure (2) into linear force.
- (3) Engine – 270cc, OHV, 4-stroke, air cooled.
- (4) **Mounting Plates** – Holds hydraulic cylinder in place.
- (5) Control Valve Handle - Controls the movement of the splitting wedge.
- (6) Log Catcher – Prevents split logs from falling to the ground.
- (7) Wedge

- (8) **Splitting Beam**
- (9) **Log Cradle** – Prevents log from rolling off the beam.
- (10) Tires Maximum travel speed is 45 MPH (72 KPH).
- (11) Hydraulic Fluid Filter
- (12) Hydraulic Pump Pumps hydraulic oil through the system.
- (13) Beam Bracket Holds splitting beam in place.
- (14) Support Leg Supports log splitter while operating. Raise leg for towing.
- (15) Safety Chains For use while towing.

Your log splitter is 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

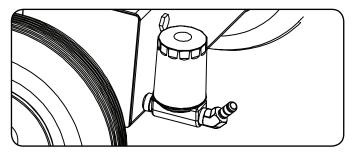
have your serial number and model number available.

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.

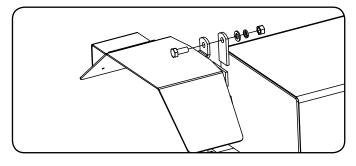
1) Install the Oil Filter

1. Thread the external oil filter onto the hydraulic oil tank.



2) Install the Fenders

- 1. Attach the fender to the side of the hydraulic oil tank with an M10x30 bolt, M10 washer, M10 lock washer and M10 nut. The safety reflector should be facing the back of the hydraulic oil tank.
- 2. Repeat with second fender on opposite side.



3) Install the Wheels

- 1. Place bearings in the wheel hub and orient the bearing so that the taper on the bearing matches the taper on
- 2. Press the bearing seal flush into the hub. Use a hammer and wood block to flush the seal with the end
- 3. Slide the wheel over the axel on the hydraulic oil tank.
- 4. Install the castle nut and tighten by hand. Tighten another ¼ turn with a wrench to seat the bearing.
- 5. Spin the wheel to distribute grease.

3) Install the Wheels Cont'd.

- 6. Loosen the castle nut and re-tighten by hand.
- 7. Install the cotter pin through the castle nut and axle and spread the ends of the pin to prevent the nut from backing off.
- 8. Place axle cap over castle nut and axle. Use a hammer and wood block to seat the cap.
- 9. Repeat steps 1-8 for the other wheel.

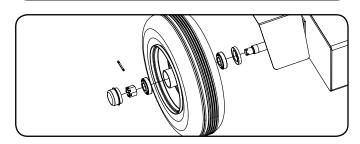


NOTE

Keep the wheel hub clean and free from debris during assembly.

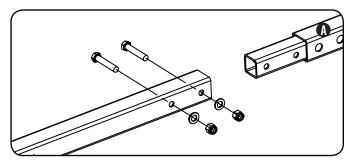
CAUTION

Over-tightening the castle nut will cause the bearings to run hot and fail prematurely.

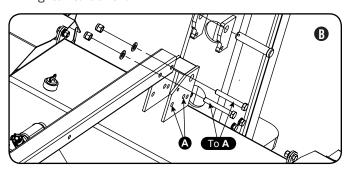


4) Install the Tow Bar

1. Assemble two piece tow bar with two M12x65 bolts and M12 lock nuts and washers. (A)

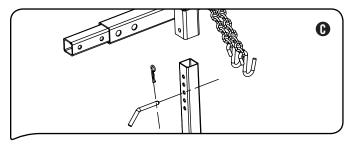


2. Attach the tow bar to the bracket on top of the hydraulic oil tank with two M12x85 bolts and M12 lock nuts. (B) Tighten to 50 ft-lb.



ASSEMBLY

- 4) Install the Tow Bar Cont'd.
- 3. Install the front support leg and secure with pin and R-pin (hairpin clip). (C)

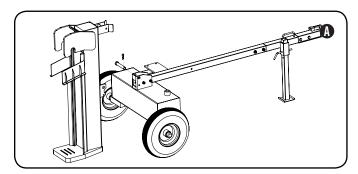


5) Install the Beam

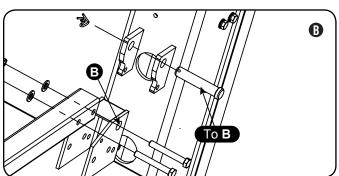
1. Stand the beam upright on foot plate behind the hydraulic fluid tank. (A)



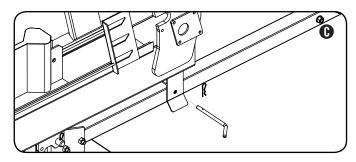
The beam is very heavy and should only be moved or lifted by at least 2 able persons at all times during assembly process. Use extreme caution to avoid injury.



- 2. Slowly lift the front of the tow bar to roll the frame toward the beam and carefully align the pivot holes on the bottom of the beam and the top of the hydraulic oil tank.
- 3. Once aligned, secure the beam to the tank with hitch pin and R-pin. (B)
- 4. Hold the top of the beam by the cylinder mount and carefully rotate the beam toward the tow bar.
- 5. Once the bracket on the bottom of the beam is aligned with the tow bar, secure the beam in the horizontal position with pin and R-pin. (C)

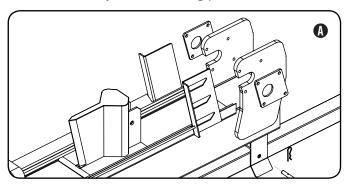


5) Install the Beam Cont'd.



6) Install the Cylinder and Wedge

- 1. Place the wedge on the beam between the cylinder mounts and slide it forward into the rails. (A)
- 2. Remove the cylinder mounting plates. (A)



3. Install the cylinder by sliding the pegs at the end of the cylinder into the mounting slots on top of the beam. Be sure to slide the cylinder all the way back into the mounting slots. (B)



NOTE 🤝

The cylinder will support itself when slid all the way back into the mounting slots.

- 4. Secure the cylinder mounting plates with hardware removed in step 2. (B)
- 5. Slide the wedge back toward the cylinder and align the bolt hole in the wedge with the bolt hole in the cylinder rod. (B)

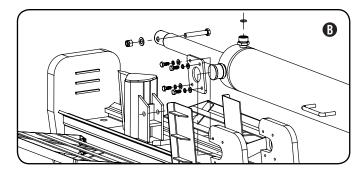


⇔NOTE

The cylinder rod may need to be rotated slightly in order to properly align the the wedge. Insert a screwdriver into the bolt hole in the cylinder rod and slowly rotate as needed. Slightly life the back end of the cylinder to align holes.

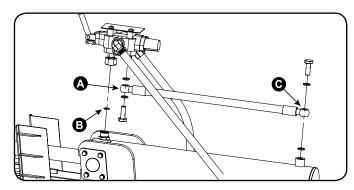
6. Secure the wedge to the cylinder rod with an M12x75 bolt and M12 nut. Lightly tighten the nut to approximately 5 ft-lb. (B)

6) Install the Cylinder and Wedge Cont'd.



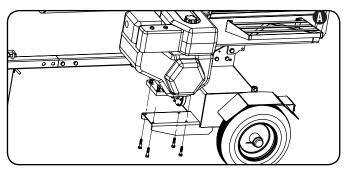
7) Install the Control Valve

- 1. Attach the hydraulic hose the control valve with the bolt connector. Place a combination washer on both sides of the hose end to seal the connection. (A)
- 2. Place the o-ring into the counterbore in the cylinder port. (B)
- 3. Connect the control valve to the cylinder port by tightening the union nut on the bottom of the control valve. Align the valve with the cylinder axis. (B)
- 4. Attach the other end of the hydraulic hose to the cylinder end port using the bolt connector. Place a combination washer on both sides of the hose end to seal the connection. (C)



8) Install the Engine

1. Attach the engine/pump to the engine mounting plate on the hydraulic oil tank with four M10x45 bolts, M10 washers, M10 lock washers, and M10 nuts and tighten to 25-30 ft-lb. (A)



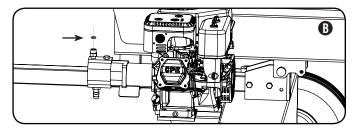
- 8) Install the Engine Cont'd.
- 2. Place the O-ring into the counterbore in the pump outlet fitting. (B)
- 3. Apply 4-5 wraps of teflon tape to the pipe threads on the high pressure hose.
- 4. Connect one end of the high pressure hose to the inlet on the control valve and the other end to the pump outlet fitting.



NOTE

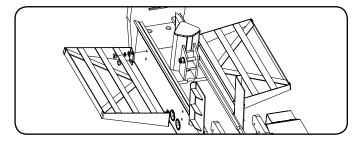
The pump outlet connection does NOT require teflon tape. The o-ring seals against the face of the fittings on the pump and hose. Tighten to approximately 12 ft-lb. Over-tightening can damage the pump.

- 5. Connect one end of the oil return hose to barbed fittings on the control valve and and the other end to the oil filter. Secure with hose clamps.
- 6. Attach oil suction hose to the tank and pump. Secure with hose clamps.



9) Install the Log Catcher

- 1. Attach log catcher to side of beam with four M10x15 bolts, M10 lock washers, and M10 washers.
- 2. Repeat step 1 for the other side.



Add Engine Oil



(!) CAUTION

DO NOT attempt to crank or start the engine before it has been properly filled with the recommended type and amount of oil. Damage to the log splitter as a result of failure to follow these instructions will void your warranty.



NOTE

The recommended type of oil for use is 10W-30 automotive.

- 1. Make sure the log splitter is on a flat, level surface.
- 2. Remove oil fill cap/dipstick to add oil.
- 3. Add 1.16 qt. (1.1 L) of oil (SAE 10W-30) oil should cover all but 2 threads of filler hole. Replace oil fill cap/dipstick. DO NOT OVERFILL.
- 4. Check engine oil level daily and add as needed.

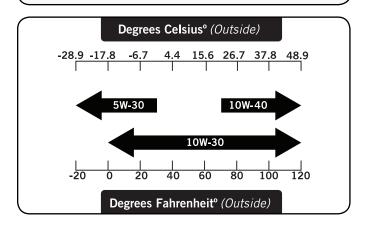
CAUTION

The engine is equipped with a low oil shut-off and the will stop when the oil level in the crankcase falls below the threshold level.



NOTE

Check oil often during the break-in period. Refer to the Maintenance section for recommended service intervals.



Add Fuel

- 1. Use clean, fresh, regular unleaded fuel with a minimum octane rating of 85 and an ethanol content of less than 10% by volume.
- 2. DO NOT mix oil with fuel.
- 3. Clean the area around the fuel cap.
- 4. Remove the fuel cap.
- 5. Slowly add fuel to the tank. DO NOT OVERFILL. Fuel can expand after filling. A minimum of 6.4 mm (1/4 in.) of space left in the tank is required for fuel expansion, more than 6.4 mm (1/4 in.) is recommended. Fuel can be forced out of the tank as a result of expansion if it is overfilled, and can affect the stable running condition of the product. When filling the tank, it is recommended to leave enough space for the fuel to expand.
- 6. Screw on the fuel cap and wipe away any spilled fuel.

① CAUTION

Use regular unleaded gasoline with a minimum octane rating of 85.

Do not mix oil and gasoline.

Fill tank to approximately 6.4 mm (1/4 in.) below the top of the tank to allow for fuel expansion.

DO NOT pump gas directly into the engine at the gas station. Use an approved container to transfer the fuel to the engine.

DO NOT fill fuel tank indoors.

DO NOT fill fuel tank when the engine is running or hot.

DO NOT overfill the fuel tank.

DO NOT light cigarettes or smoke when filling the fuel tank.



⚠ WARNING

Pouring fuel too fast through the fuel screen may result in blow back of fuel at the operator while filling.

Add Fuel Cont'd.



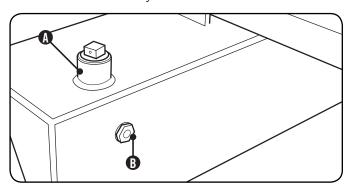
Our engines work well with 10% or less ethanol blend fuels. When using blended fuels there are some issues worth noting:

- Ethanol-gasoline blends can absorb more water than gasoline alone.
- These blends can eventually separate, leaving water or a watery goo in the tank, fuel valve and carburetor.
- With gravity-fed fuel supplies, this compromised fuel can be drawn into the carburetor and cause damage to the engine and/or potential hazards.
- There are only a few suppliers of fuel stabilizer that are formulated to work with ethanol blend fuels.
- Any damages or hazards caused by using improper fuel, improperly stored fuel, and/ or improperly formulated stabilizers, are not covered by manufacture's warranty.

It is advisable to always shut off the fuel supply, run the engine to fuel starvation and drain the tank when the equipment is not in use for more than 30 days.

Add Hydraulic Oil

- Make sure the log splitter is on a flat, level surface.
- 2. Remove the oil plug from the oil tank. (A)
- 3. Add 26.5 L (7 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.



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

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

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

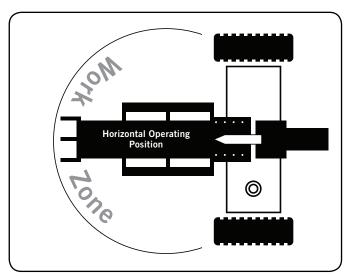
- 1. Always check local and state regulations regarding the requirements for towing, licensing and lights.
- 2. Before towing make sure the log splitter is correctly and securely attached to the vehicle and the safety chains attached with enough slack to allow for turning.
- 3. Never exceed the max. 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.

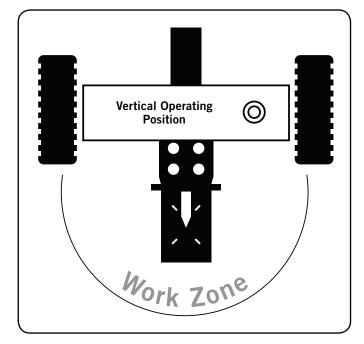
Log Splitter Location

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

Only operate log splitter from work zone shown below.

Log Splitter Location Cont'd.







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

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

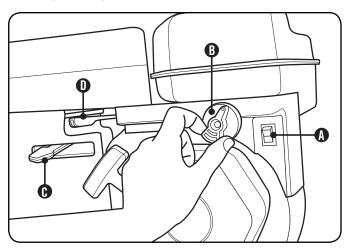
- 1. Make certain the log splitter is on a flat, level surface.
- 2. Flip engine switch to "ON" position (Item A).
- 3. Rotate the fuel valve to the "ON" position (to the left) (Item B).
- 4. Move the choke lever (Item C) to the "Choke" position (to the left).
- 5. Pull the starter cord slowly until resistance is felt and then pull rapidly. SEE NOTE BELOW.



Keep choke lever in "Choke" position for only 1 pull of the recoil starter. After first pull, move choke lever to the "Run" position for up to the next 3 pulls of the recoil starter. Too much choke leads to spark plug fouling/engine flooding due to the lack of incoming air. This will cause the engine not to start.

- 6. As engine warms up, move the choke lever (Item C) to "Run" (to the right).
- 7. Move the throttle lever (Item D) to the "Fast" position.

Starting the Engine Cont'd.



NOTE

If the engine starts, but does not run, make certain that the log splitter is on a flat, level surface. The engine is equipped with a low oil sensor that will prevent the engine from running when the oil level falls below a critical threshold.

The hydraulic oil needs to be above -12°C (10°F) before starting the engine. Cold hydraulic oil can damage the hydraulic pump.

If outdoor air temperature is below 0°C (32°F) allow the log splitter to warm up by extending and returning the wedge several times before splitting wood.

Stopping the Engine

- 1. Turn the fuel knob to the "Off" position.
- 2. Let the engine run until fuel starvation has stopped the engine. This usually takes a few minutes.
- 3. Turn the ignition switch to the "Off" position. **Important:** Always ensure that the Fuel Valve and the Engine Switch are in the "OFF" position when the engine is not in use.



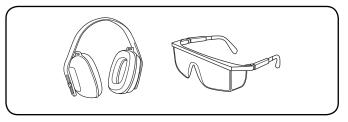
⇒NOTE

If the engine will not be used for a period of two (2) weeks or longer, please see the Storage section for proper engine and fuel storage.

OPERATION

Log Splitter Operation

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



- 2. Block tires and put support leg 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.



HORIZONAL 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.
- 5. Make sure all limbs are clear of crush zones.
- 6. Push and hold the control valve handle forward (towards the end plate) to split the log. The wedge will stop when the control valve handle is released, or when the cylinder reaches the end of stroke.
- 7. Push the control valve handle backward and release to return the wedge to its original position. The control valve handle will return to the neutral position when the wedge is fully retracted.
- 8. Clear the split wood from the work zone.



The cylinder stroke is designed so the wedge stops approximately 1.5" from the end plate.

① CAUTION

Do not hold auto control valve in return position. Cylinder damage can occur.



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

MAINTENANCE AND STORAGE

The owner/operator is responsible for all periodic maintenance.



Never operate a damaged or defective log splitter.

⚠WARNING

Improper maintenance will void your warranty.



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

To prevent accidental starting, remove and ground spark plug wire before performing any service.

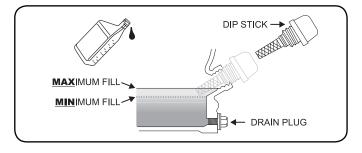
0il

Change oil when the engine is warm. Refer to the oil specification to select the proper grade of oil for your operating environment.

- 1. Remove the oil drain plug with a 15 mm socket and extension.
- 2. Allow the oil to drain completely.
- 3. Replace the drain plug.
- 4. Remove oil fill cap/dipstick to add oil.
- 5. Add 1.16 qt. (1.1 L) of oil and replace oil fill cap/ dipstick. DO NOT OVERFILL.
- 6. Dispose of used oil at an approved waste management facility.

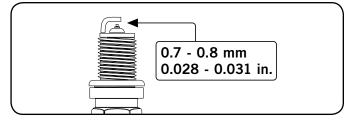


Once oil has been added, a visual check should show oil about 1-2 threads from running out of the fill hole. If using the dipstick to check oil level, DO NOT screw in the dipstick while checking.



Spark Plugs

- 1. Remove the spark plug cable from the spark plug.
- 2. Inspect the electrode on the plug. It must be clean and not worn to produce the spark required for ignition.
- 3. Make certain the spark plug gap is 0.7 0.8 mm (0.028 - 0.031 in.).



- 4. Refer to the spark plug recommendation chart when replacing the plug.
- 5. Carefully thread the plug into the engine.
- 6. Use the spark plug tool to firmly install the plug.
- 7. Attach the spark plug wire to the plug.

Air Filter

- 1. Using your fingers, unscrew the thumb screws of the top holes of the air filter cover.
- 2. Remove the plastic outer casing.
- 3. Remove the foam element.
- 4. Wash in liquid detergent and water. Squeeze thoroughly dry in a clean cloth.
- 5. Saturate in clean engine oil.
- 6. Squeeze in a clean, absorbent cloth to remove all excess oil.
- 7. Place the filter in the assembly.
- 8. Reattach the air filter cover and using your fingers, insert the thumb screws into the top and bottom holes of the air filter cover. Screw until tight. Be sure not to over tighten.

Cleaning

(I) 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.

Changing the Hydraulic Oil and Oil Filter



♥ NOTE

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

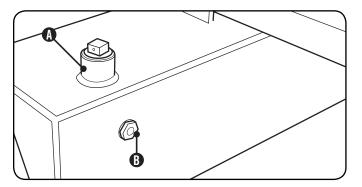
- 1. Begin with the cylinder retracted and the engine "OFF."
- 2. Turn the fuel valve "OFF."
- 3. Release any stored pressure by moving the valve lever forward and backward several times.
- 4. Place a container under the hydraulic tank. Make sure it is large enough to hold the contents of the tank.
- 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. 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 34 to 1 turn after the gasket makes contact.
- 8. Reinsert and screw in the tank drain plug. Tighten, but do not over tighten.



⇔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 26.5 L (7 gal.) of hydraulic oil to the tank. Wipe up any spilled oil. (A)



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. (B)
- 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

Refer to Specifications for a list of compatible replacement filters or call Champion Power Equipment at 1-877-338-0999 to order a replacement OEM filter.

MAINTENANCE AND STORAGE

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 engine and hydraulic oil levels		
Clean around air intake and muffler		
First 5 Hours		
Change engine oil		
Every 50 hours or every season		
Clean air filter		
Change engine oil if operating under heavy load or in hot environments		
Every 100 hours or every season		
Change engine oil		
Clean/Adjust spark plug		
Check/Adjust valve clearance *		
Clean fuel tank and filter *		
Change hydraulic oil		
Change hydraulic oil filter		
Every year		
Inspect wheel bearings and repack bearing grease as needed.		
Every 3 years		
Replace fuel line		

^{*}To be performed by knowledgeable, experienced owners or Champion Power Equipment certified dealers.

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.

Clean spark arrester every 100 hours (if equipped). Check and tighten all bolts and nuts before operating the log splitter.

Storage

Refer to the Maintenance section for proper cleaning instructions.

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.

Engine stored for Less than 30 Days

- 1. Allow the engine to cool completely before storage.
- 2. Clean engine according to the Maintenance section.
- 3. To extend the fuel storage life add fuel stabilizer.
- 4. Turn the fuel valve to the "Off" position.

Engines Stored for Over 30 Days

- 1. Run the engine with the fuel valve in the "Off" position until the engine stops.
- 2. The engine needs to cool completely before storage.
- 3. Clean engine according to the Maintenance section.
- 4. Drain all fuel completely from the fuel line and carburetor to prevent gum from forming.
- 5. Add a fuel stabilizer into the fuel tank.
- 6. Change the oil.
- 7. The fuel valve needs to be in the off position.
- 8. Remove the spark plug and pour about 14 mL (½ oz.) of oil into the cylinder. Crank the engine slowly to distribute the oil and lubricate the cylinder.
- 9. Reattach the spark plug.

riangle 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.

TROUBLESHOOTING

Problem	Cause	Solution
Engine will not start	No fuel	Add fuel
	Faulty spark plug	Replace spark plug
	Unit loaded during startup	Remove load from unit
Engine will not start;	Low oil level	Fill crankcase to the proper level
Engine starts but runs roughly		Place log splitter on a flat, level surface
	Choke in the wrong position	Adjust choke
	Spark plug wire loose	Attach wire to spark plug
Engine shuts down during operation	Out of fuel	Fill fuel tank
	Low oil level	Fill crankcase to the proper level
		Place log splitter on a flat, level surface
Engine cannot supply enough power or overheating	Insufficient ventilation	Check for air restriction. Move to a well ventilated area
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

Log Splitter Specifications

	8 1
_	Ram Force
_	Cycle Time, Max No-Load 15 seconds
_	Hydraulic Tank Capacity 7 gal. (26.5 L)
_	Max Log Length 24-in. (61 cm)
_	Max Log Weight 100 lb. (45 kg)
_	Coupler Ball Size
_	Tire Size, Outside Diameter 16-in. (40.6 cm)
_	Max towing speed 45 MPH (72 KPH)
_	Engine
_	Cylinder size 4.72-in. x 23-in. (12 cm x 58.4 cm)
_	Cylinder rod size 1.84-in. (4.5 cm)
_	Gear Pump
_	Max pressure
_	Max flow
_	Control Valve Detent (auto-return)
Ov	rerall Dimensions
_	Gross Weight
_	Net Weight
_	Length
_	Width 40.98-in. (104.1 cm)
_	Height 45.87-in. (116.5 cm)

Engine Specifications

_	Model
_	Displacement
-	Type
_	Start Type

Spark Plugs

Recommended replacement spark plug:

NGK BPR6ES or equivalent

Make certain the spark plug gap is 0.7 - 0.8 mm or (0.028 - 0.031 in.).

Maintenance Valve Clearance

- Intake: 0.13 0.17 mm (0.005 0.007 in.)
- Exhaust: 0.18 0.22 mm (0.007 0.009 in.)

Note: Tech bulletin regarding the valve adjustment procedure is on www.championpowerequipment.com.

Hydraulic Oil System

Total oil capacity is 9 gallons (34 L).

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

Replacement filters:

- Fram PH9342
- **K&N HP-2008**
- Wix 51361



\bigcirc NOTE

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

Fuel

Fuel capacity is 1.8 gallons (6.8 L). Use regular unleaded gasoline with a minimum octane rating of 85 and an ethanol content of less than 10% by volume.

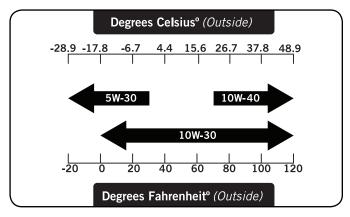
Oil

Use 10W-30 automotive oil.

Oil capacity is 1.1 L (1.16 qt).

DO NOT OVERFILL.

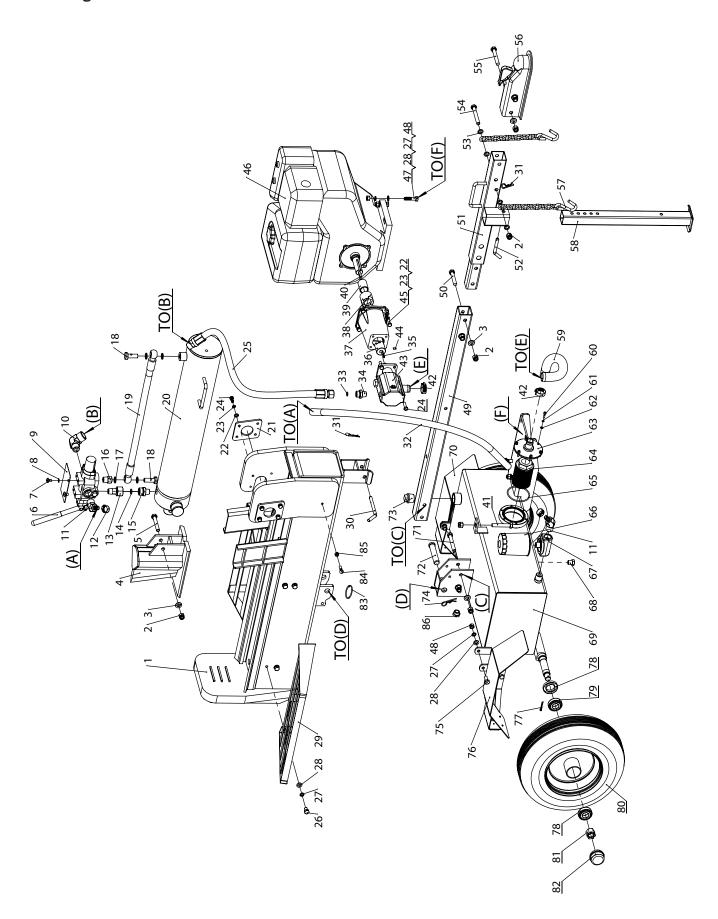
Please reference the following chart for recommended oil types for use in the log splitter.



An Important Message About Temperature

Your Champion Power Equipment product is designed and rated for continuous operation at ambient temperatures up to 40°C (104°F). When your product is needed your product may be operated at temperatures ranging from -15°C (5°F) to 50°C (122°F) for short periods. If the product is exposed to temperatures outside this range during storage, it should be brought back within this range before operation. In any event, the product must always be operated outdoors, in a well-ventilated area and away from doors, windows and other vents.

Parts Diagram

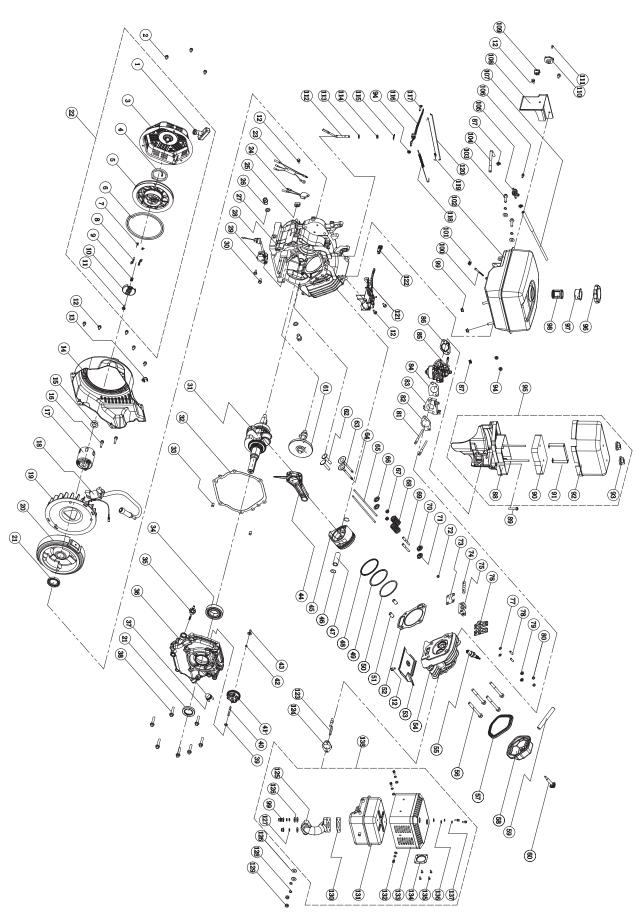


#	Part Number	Description	Qty
1	PMJ30-02	Beam	1
2	GB/T 889.1-2000	Lock Nut M12	8
3	GB/T 95-2000	Washer 12	7
4	PMJ22J-04-00	Wedge Slide	1
5	PMJ22J-20	Bolt	1
6	PMJ22J-12	Control Valve	1
7	GB/T 818-2000	Bolt M8×12	2
8	GB/T 859-1987	Washer 8	2
9	PMJ22J-19	Plate	1
10	PMJ22G-51	Filter Housing "IN" Connection	1
11	PMJ22G-49	Filter Housing "OUT" Connection	2
12	JB/T 8870 1999	Clamp d25	2
13	PMJ22G-25	Valve Joiner	1
14	GB3452.1-92	"O" Ring 14×2.65	1
15	PMJ22G-22	Front Cover Connection	1
16	PMJ22G-24	Valve Joiner	1
17	GB 982-1977	Combination Washer 14	4
18	PMJ22G-23	Bolt Connection	2
19	PMJ22J-13	Hydraulic Hose(Valve- Cylinder)	1
20	PMJ30-08-00	Cylinder	1
21	PMJ30-03	Cylinder Fixing Plate	2
22	GB/T 95-2000	Washer 8	12
23	GB/T 93-1987	Lock Washer 8	12
24	GB/T 5783-2000	Bolt M8x20	12
25	PMJ22J-18	Hydraulic Hose(Valve- Pump)	1
26	GB/T 5781-2000	Bolt M10x15	8
27	GB/T 93-1987	Lock Washer 10	16
28	GB/T 95-2000	Washer 10	16
29	PMJ30F-01-Y	Log Catcher - Yellow	2
30	PMJ22J-15	Pin	1
31	PMJ22G-30	R Pin	2
32	PMJ22G-15	Hydraulic Hose(Valve-Oil Tank)	1
33	GB/T 3452.1-92	"O" Ring 10×2.65	1
34	PMJ22G-21	Outlet Connector Of Pump	1
35	GB/T 1096-1979	Flat Key	1
36	PMJ22G-26	Gear Pump Connector	1
37	PMJ30-23	Gear Pump Stand	1
38	PMJ30-28	Engine Connector	1
39	PMJ30-29	Engine Bushing	1
40	PMJ30-32	Key	1
41	GB/T 5782-2000	Bolt M12x70	1
42	JB/T 8870 1999	Clamp d40	2
43	PMJ30-10	Gear Pump	1

#	Part Number	Description	Qty
44	GB/T 77-2000	Screw M6×10	1
45	ASME B18.2.1 1996	Bolt 5/16"-24×1"	4
46	YF177FD-00	Engine	1
47	GB/T 5780-2000	Bolt M10x45	4
48	GB/T 41-2000	Nut M10	8
49	PMJ30-06	Base Tube	1
50	GB/T 5782-2000	Bolt M12×65	2
51	PMJ22J-01-00	Base Connector	1
52	PMJ22J-10	Pin	1
53	GB/T 97.2-1985	Washer 12	4
54	GB/T 5782-2000	Bolt M12×90	1
55	GB/T 5782-2000	Bolt M12×80	2
56	PMJ22G-40	2" Coupler	1
57	PMJ22G-41	Safety Chain With Hook	2
58	PMJ22J-07-00	Front Support Leg	1
59	PMJ30-17	Oil Pipe	1
60	GB/T 70.1-2000	Screw M5×20	6
61	GB/T 93-1987	Lock Washer 5	6
62	GB/T 95-1985	Washer 5	6
63	PMJ22G-07-00	Filter Fix Plate	1
64	PMJ22G-44	Filter	1
65	GB/T 3452.1-92	"0" Ring 80×3.55	1
66	PMJ22G-52	Auto Filter	1
67	PMJ22G-50	Auto Filter Base	1
68	PMJ22G-19	Oil Plug	1
69	PMJ30-01	Oil Tank	1
70	PMJ22G-35-00	Right Fender	1
71	GB/T 5782-2000	Bolt M12×85	2
72	PMJ22G-12	Hinge Pin	1
73	PMJ22G-18	Screw NPT1"	1
74	GJY12-3	R Pin	1
75	GB/T 5781-2000	Bolt M10x30	4
76	PMJ22G-34-00	Left Fender	1
77	GB/T 91-2000	Cotter Pin 4×32	2
78	PMJ22J-05-01	Cased Seal	2
79	L44634 LYC DS	Tapered Bearing	4
80	PMJ22J-05-03	Wheel	2
81	GB/T 9459-1988	Slotted Nut M20x1.5	2
82	PMJ22J-05-02	Axle Cap	2
83	PMJ22G-38	Big Tension Spring	1
84	GB/T 798-1988	Swing Bolt M8x28	1
85	GB/T 6170-2000	Nut M8	1
86	GB 1160.2-89	Oil Scale	1

SPECIFICATIONS

Engine Parts Diagram



44	Part Number	Description	Otv
#	Part Number 21.061300.00	Description Handle (soft)	Qty
2	1.5789.0608	Flange Bolt M6×8	3
3	42.061100.00.2	Recoil Starter Cover	1
4	45.060005.00	Recoil Starter Spring	1
5	41.061001.00	Recoil Starter Reel	1
6	2.10.003	Rope (ø5×1550)	1
7	45.060003.00	Spring,Ratchet	2
8	45.060002.00	Starter Ratchet(Iron)	2
9	45.060009.00	Spring,Ratchet Guide	1
10	45.060007.00	Ratchet Guide	1
11	45.060008.00	Screw, Ratchet Guide	1
12	1.5789.0612	Flange Bolt M6×12	9
13	2.05.005	Clamp (ø11.5×10)	1
14	42.080100.00.48	Fan Cover	1
15	2.02.007	Nut (M16×1.5)	1
16	1.5789.0629	Flange Bolt (M6×29)	2
17	41.060001.00	Pulley, Starter	1
18	41.123000.02	Ignition Coil (Shield)	1
19	41.080001.00	Cooling Fan	1
20	42.120100.00 2.11.004	Flywheel (EPA) Oil Seal (ø30×ø46×8)	2
22	42.061000.00	Recoil Assembly	1
23	23.120700.02	Change wire flameout	1
24	21.120400.00	Diode Assembly	1
25	45.030032.00	Sheath, Wire	1
26	2.08.039	Bolt, Drain (M12×1.5×15)	2
27	2.03.023	Washer, Drain Bolt (ø12.5×ø20×2)	2
28	42.030100.00	Crankcase	1
29	45.127000.01	Oil Level Sensor	1
30	1.5789.0615	Flange Bolt (M6×15)	2
31	41.050100.06	Crankshaft	1
32	42.030008.00	Gasket, Crankcase Cover (No Asbestos)	1
33	2.04.001	Dowel Pin (ø9×14)	2
34	1.276.6206	Bearing (6206)	1
35	46.031000.00.48	Oil Dipstick Assembly	1
36	41.030007.00	Cover, Crankcase	1
37	22.031000.01.48	Oil filler cap	1
38	1.5789.0835.0.8	Flange Bolt (M8×35)	7
39	2.03.021.1	Washer (ø6.4×ø13×1)	1
40	45.110013.00	Shaft, Governor, Gear	1
41	41.110100.00	Gear, Governor	1
42	21.110011.00	Clip, Governor, Gear	1
43	45.110012.00 41.050200.00	Bushing, Governor Gear Connecting Rod	1
45	41.050005.00	Piston	1
46	2.09.001	Circlip (ø18×ø1)	2
47	41.050003.00	Wrist Pin	1
48	41.050303.00	Ring, Oil	1
49	41.050302.00	Ring, Second Piston	1
50	41.050301.00	Ring, First Piston	1
51	2.04.004	Dowel Pin (ø12×20)	2
52	42.030009.00	Gasket, Cylinder Head	1
53	41.080400.00	Air Guide, Lower	1
54	42.010100.00	Cylinder Head	1
55	2.15.002 (F6RTC)	Spark Plug (F6RTC)	1
56	2.08.014	Flange Bolt (M10×80)	4
57	46.020002.00	Gasket, Cylinder Head Cover (CPE)	1
58	46.021000.00	Cylinder Head Cover (CPE)	1
59	41.020001.00	Breather Tube	1
60	45.020100.00	Bolt, Cylinder Head Cover	1
- 61	46.041000.00	Camshaft	1
61	45.040012.00	Lifter, Valve	2
62	45.040013.00	Malor J. C. C.	4
62 63	41.040002.00	Valve, Intake	1
62 63 64	41.040002.00 41.040006.00	Valve, Exhaust	1
62 63 64 65	41.040002.00 41.040006.00 42.040005.00	Valve, Exhaust Push Rod	1 2
62 63 64 65 66	41.040002.00 41.040006.00 42.040005.00 45.040015.00	Valve, Exhaust Push Rod Retainer, Valve Spring (down)	1 2 2
62 63 64 65 66 67	41.040002.00 41.040006.00 42.040005.00 45.040015.00 45.040017.00	Valve, Exhaust Push Rod Retainer, Valve Spring (down) Oil Seal, Valve	1 2 2 2
62 63 64 65 66	41.040002.00 41.040006.00 42.040005.00 45.040015.00	Valve, Exhaust Push Rod Retainer, Valve Spring (down)	1 2 2

#	Part Number	Description	Qty
70	45.040001.00	Retainer, Intake Valve Spring (up)	QLy 1
71	45.040007.00	Retainer, Exhaust Valve Spring (up)	1
72	45.040008.00	Rotator, Exhaust Valve	1
73	42.040004.00	Guide Plate, Push Rod	1
74	42.040016.00	Shaft, Rocker Arm	1
75	42.040201.00	Retainer, Rocker Arm	1
76	42.040009.00	Rocker Arm, Intake Valve	2
77 78	1.97.1.06 22.040012.00	Washer (ø6) Screw, Valve Adjustment	2
79	1.6177.1.06	Flange Nut (M6)	2
80	21.040021.00	Nut, Lock	2
81	2.01.012	Stud Bolt (M6×M8×98)	2
82	42.130002.00	Gasket, Insulator (No Asbestos)	1
83	41.130001.00	Insulator, Carburetor	1
84	42.130004.00	Gasket, Carburetor (No Asbestos)	1
85	42.131000.00	Carburetor	1
86	45.130004.00	Gasket, Air Cleaner	1
87 88	2.06.007 46.091100.01	clip(ø8×b6) Base, Air Cleaner	3
89	1.5789.0633	Flange bolt M6×33	1
90	46.091003.01	Element, Air Cleaner	1
91	46.091102.01	Supporter, air cleaner	1
92	46.091200.01	Cover, Air Cleaner	1
93	46.091600.01	Screw cap, Air clean Cover	2
94	1.6177.06	Flange Nut (M6)	3
95	46.091000.01	Air Cleaner Assembly	1
96	21.070100.00	Fuel tank cap	1
97 98	23.070303.00	Filter Supporter Fuel filter	1
98	1.6187.1.08	Nut M8	5
100	111.070300.01	Fuel filter complete	1
101	2.06.018	clip(ø10.5×b8)	1
102	46.071000.00	Fuel tank	1
103	1.5789.0832	Flange bolt 8×32	2
104	46.070011.00	Pipe, Fuel	1
105	24.070400.00	Fuel valve	1
106	1.16674.0512 46.070011.01	Flange bolt M5×12 Pipe, Fuel	1
107	46.070011.01	Fuel tank veil	1
109	5.1010.002	Flameout Switch	1
110	24.070001.00	Fuel valve knob	1
111	.818.0412	bolt M4X12	1
112	41.110001.00	Shaft, Governor Arm	1
113	2.03.019	Washer (ø8.2×ø17×0.8)	1
114	2.11.006	Oil Seal	1
115	45.110008.00	Pin, Shaft	1
116 117	41.110003.00	Arm, Governor Bolt,Governor Arm (M6×21)	1
117	41.110007.00	Spring, Governor	1
119	45.110005.00	Spring, Throttle Return	1
120	41.110006.00	Rod, Governor	1
121	42.080300.00	Air Guide, Upper	1
122	24.111008.01	Grip Sheath, Speed Governor	1
123	2.01.006	Stud Bolt (M8×34)	2
124	46.100001.07	Ex pipe gasket	1
125 126	42.101001.01	Ex pipe	7
126	1.848.08 1.859.08	Washer ø8 Spring washer ø8	5
128	1.93.08	Spring washer ø8	2
129	1.6175.08	Nut M8	2
130	42.101002.01	Washer, Muffler	1
131	42.101800.01	Muffler complete	1
132	1.16674.0510	Flange bolt M5×10	5
133	42.101202.01	Muffler Protector	1
134	46.101300.05	Spark Arrester	1
135	1.818.046 1.848.05	screw M4×6 Washer ø5	4 5
137	1.859.05	Spring washer ø5	5
138	42.101000.01	Muffler Assembly	1
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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

info@championpowerequipment.com

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 24/7 Tech Support: 1-562-204-1188

Champion Power Equipment, Inc (CPE) and Environment and Climate Change Canada (ECCC) Emission Control System Warranty

Your Champion Power Equipment (CPE) engine complies with Environment and Climate Change Canada (ECCC) emission regulations.

YOUR WARRANTY RIGHTS AND OBLIGATIONS:

CPE is pleased to explain the Emission Control Systems Warranty on your 2016 small off-road engine. New engines must be designed, built and equipped, at the time of sale, to meet ECCC 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 exits, 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
12039 Smith Ave.
Santa Fe Springs, CA 90670
USA
Tel: 1-877-338-0999
tech@championpowerequipment.com

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.
Evaporative Emissions	Fuel tank, fuel cap, fuel line, fuel line fittings, clamps, pressure relief valves, control valves, control solenoids, electronic controls, vacuum control diaphragms, control cables, control linkages, purge valves, vapour hoses, liquid/ vapour separator, carbon canister, canister mounting brackets, carburetor purge port connector

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.
12039 Smith Ave.
Santa Fe Springs, CA 90670
USA
1-877-338-0999
Attn: Customer Service
tech@championpowerequipment.com